

Power Expert



HENGFU
SWITCHING
Power Supply



Sales Network

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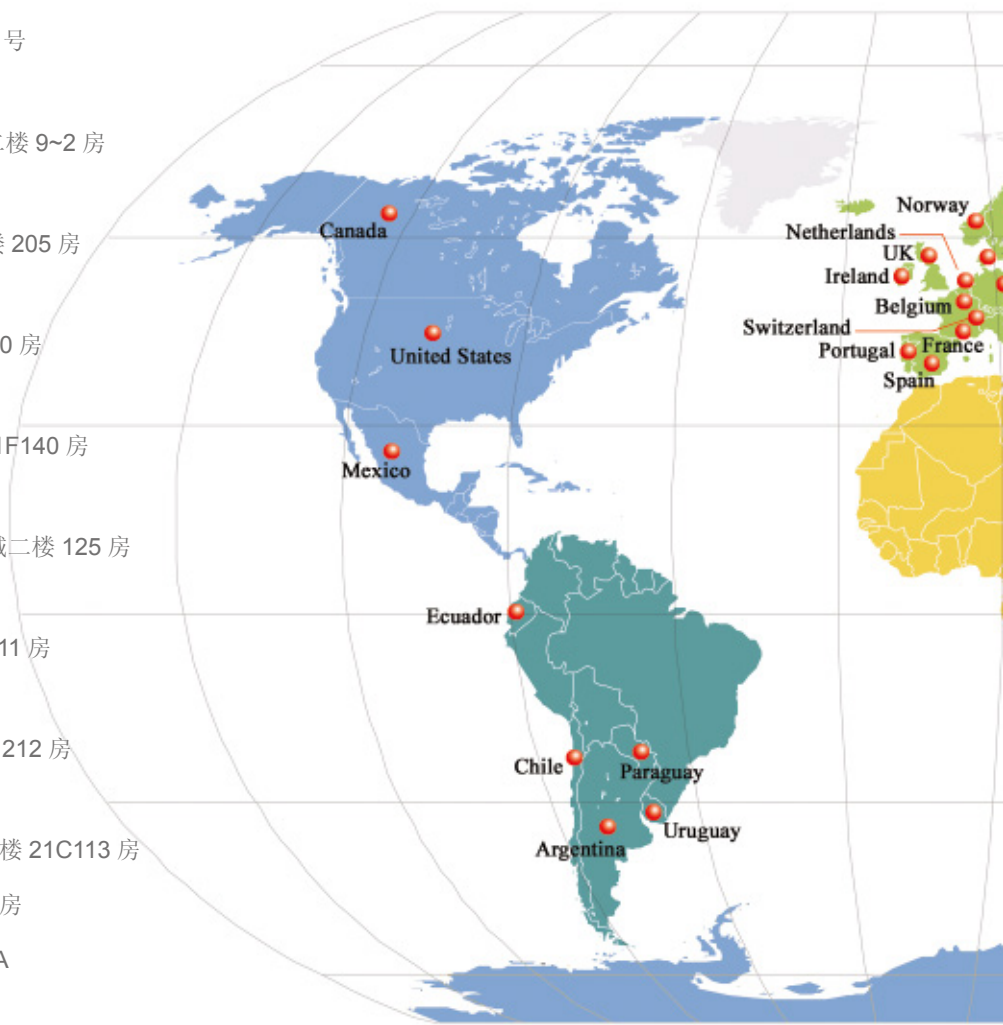
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上海总部 Headquarter



车间 Workshop



仓库 Warehouse



会议室 Meeting Room



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Electronica, Munich



ExpoElectronica, Moscow



ElectronicAsia, Hong Kong



China Electronics, Shanghai



厂区 Factory



大厅 Lobby



公司重要项目 Important Projects

公司简介

衡孚企业创始于 1992 年，是国内最具规模的全系列工业开关电源专业生产厂商。公司投资建造的新工厂位于上海松江区，占地面积 25 亩，厂房面积 13000m²。产品系列从 5W 到 2400W，5000 余种规格为客户提供了极大的灵活性。产品涵盖 AC/DC 和 DC/DC 标准品、PFC 电源、基板型电源、充电电源、导轨安装式电源、LED 电源及特殊定制品。“衡孚”在中国已被业界公认为开关电源的领导品牌，并日益成为全球瞩目的知名品牌。

公司通过权威认证机构 SGS 公司 ISO9001 质量体系认证，现已有 50 多个产品系列通过 UL, TUV, CB, CE 和 CCC 认证。我们拥有各类先进的生产和检测设备，如全自动波峰焊和回流焊设备、松下高速自动插件机、全自动点胶机、贴片机、开关电源自动测试系统、ROHS 光谱分析仪、EMC 测试系统、环境试验箱、程控恒温老化房、数据采集仪等。产品关键部件均采用世界一流品牌的元器件，以确保电源的长寿命和高可靠性。凭借优异的品质和品牌知名度，衡孚成为 2008 北京奥运会“鸟巢”国家体育场、2009 国庆六十周年天安门 LED 全彩巨屏及 2010 上海世博会各场馆的电源供应商。

凭借二十多年专业从事开关电源研发和制造的经验，我们已与全球几百家大中型企业建立了长期合作关系，分别涉及工业控制、通信、LED 显示屏及灯饰亮化工程、电梯设备、激光设备、广播电视、计算机网络、医疗器械、智能监控、车载系统、金融设备等各个重要领域，其中有很多是上市公司及世界 500 强企业。我们专业的销售队伍——遍布北京、上海、深圳、广州、西安、成都、武汉、沈阳、济南、南京、杭州、苏州、郑州等中国各大中型城市的 15 个办事处及遍布全球的经销商，将随时为您提供专业的技术支持和迅捷的售后服务。我们拥有强大的研发队伍，将竭诚为您提供最佳的电源解决方案，并成为您最值得信赖的合作伙伴！



贴片回流焊 SMD/Reflow Soldering



自动插件 Automatic Insertion



波峰焊 Wave Soldering



ICT 测试 In-Circuit Test



研发中心 R&D Center



新品开发 Product Development



EMI 测试 EMI Test



EMS 测试 EMS Test



环境试验 Environmental Test

Company Profile

Hengfu Corporation, founded in 1992, is recognized as the leading manufacturer of industrial switching power supplies in China. Our self-funded new factory is located in Shanghai Songjiang, covering an area of 16000m², factory building 13000m². Our product range includes AC/DC & DC/DC standard, PFC, open frame, battery charger, din rail, LED driver and custom-design switching power supplies, containing over 5000 models with a great variety.

The company is ISO9001 certified by SGS. Over 50 product series have acquired UL, TUV, CB, CE & CCC approval, and more are underway. We have various advanced equipment, such as wave soldering and reflow soldering machine, Panasonic high-speed AI machine, automatic dispenser, chip placer, ATE, ICT, ROHS testing, environmental testing, EMC testing system, burn-in test room, data acquisition, etc. Only top international brand components are adopted for the key parts to ensure long lifetime and high reliability. With high quality and market reputation, we were honoured to become main SMPS supplier for Beijing Olympic Games, 60th National anniversary ceremony and Shanghai Expo2010. 'Hengfu' is a well-known brand in China, and obtains increasing reputation in the world market.

With over 20 years experience in design and manufacture of switching power supplies, we have established long-term relationship with hundreds of big customers in the field of industrial control, telecom, LED display & lighting of buildings, elevator, laser equipment, TV & broadcasting, computer system, medical equipment, safety control, automotive system, banking equipment, etc. Our countrywide sales team - 15 branch offices and worldwide distributors are ready to offer you professional technical support and prompt service.

We sincerely welcome you to visit our website www.hengfu.com for more details. We are confident to offer you total power solution and become your trustworthy power partner.



ATE 测试 Automated Test



耐压测试 Hi-pot Test



恒温老化 Constant Temp. Burn-in



终检 Final Test

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M2 Series & E Series



AC/DC, DC/DC Standard



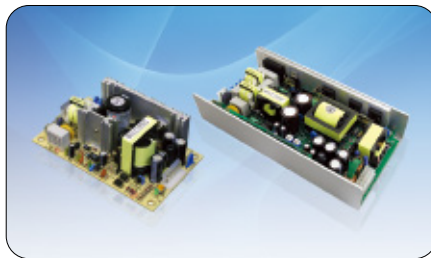
PFC Series



Din Rail & Battery Charger



LED Driver & Rain-proof Series



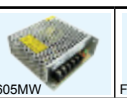
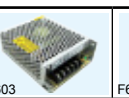
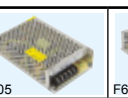
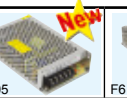
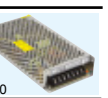
Open Frame Series

15W~150W Single Output M2 Series

Features:

- Universal AC input / full range
- Miniature size, high power density
- Top international brand components for key parts

- UL, CE approved (refer to spec. of each series)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty

Product picture																	
Model No.	HF15W-SML	HF15W-SSM	HF25W-SSM	HF35W-SSM	HF50W-SSM	HF75W-SSM	HF100W-SSM	HF100W-SMF	HF150W-SMF								
Dimension (mm)	86×58.5×31.5	62.5×51×28	78×51×28	98.5×82×35	99×97×36	129×98×40	160×98×39	160×98×39	199×98×39								
Weight & packing (/CTN)	0.14kg	0.13kg, 108pcs	0.18kg, 90pcs	0.25kg, 60pcs	0.28kg, 42pcs	0.42kg, 42pcs	0.56kg, 30pcs	0.43kg, 30pcs	0.66kg, 28pcs								
AC input voltage range	88~264VAC (124~370VDC)							85~132/170~264VAC switch									
Input frequency	47~63Hz																
Inrush current	cold start, 15A/115V, 30A/230V			cold start, 20A/115V, 40A/230V													
Input leakage current	< 0.7mA/ 230VAC			< 1mA/ 230VAC													
Line regulation (full load)	≤ ± 0.5%																
Voltage adjust range	± 10%																
Overload protection	105~150%, hiccup mode, auto recovery								105~130%, shut off								
Over voltage protection	clamping by zenor diode			115~150%, shut off, re-power on to recover													
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min																
Rise time	50ms@full load (typical)																
Hold up time	20ms@full load (typical)																
Operating temperature	-20℃~-+70℃ (refer to the derating curve)																
Safety standards	meet GB4943, UL60950, EN60950																
EMC standards	meet GB9254, EN55022 classB, EN55024, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11																
Cooling method	convection																

15W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF15W-SML-5	5V 3.0A	0.5%	80mV	77%
HF15W-SML-12	12V 1.3A	0.5%	120mV	80%
HF15W-SML-24	24V 0.7A	0.5%	150mV	82%
HF15W-SML-48	48V 0.35A	0.5%	150mV	82%

15W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF15W-SSM-5	5V 3.0A	0.5%	80mV	76%
HF15W-SSM-12	12V 1.3A	0.5%	120mV	82%
HF15W-SSM-24	24V 0.625A	0.5%	150mV	83%
HF15W-SSM-48	48V 0.33A	0.5%	150mV	83%

25W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF25W-SSM-5	5V 5.0A	0.5%	80mV	78%
HF25W-SSM-12	12V 2.1A	0.5%	120mV	82%
HF25W-SSM-15	15V 1.7A	0.5%	120mV	82%
HF25W-SSM-24	24V 1.1A	0.5%	150mV	85%
HF25W-SSM-48	48V 0.57A	0.5%	150mV	85%

35W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF35W-SSM-3.3	3.3V 7.0A	0.5%	80mV	71%
HF35W-SSM-5	5V 7.0A	0.5%	80mV	74%
HF35W-SSM-12	12V 3.0A	0.5%	120mV	81%
HF35W-SSM-15	15V 2.4A	0.5%	120mV	81%
HF35W-SSM-24	24V 1.5A	0.5%	150mV	82%
HF35W-SSM-48	48V 0.8A	0.5%	150mV	85%

50W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SSM-5	5V 10.0A	0.5%	80mV	80%
HF50W-SSM-12	12V 4.2A	0.5%	120mV	82%
HF50W-SSM-15	15V 3.4A	0.5%	120mV	82%
HF50W-SSM-24	24V 2.2A	0.5%	150mV	85%
HF50W-SSM-48	48V 1.1A	0.5%	150mV	86%

75W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF75W-SSM-5	5V 12.0A	0.5%	80mV	73%
HF75W-SSM-12	12V 6.0A	0.5%	120mV	82%
HF75W-SSM-15	15V 5.0A	0.5%	120mV	82%
HF75W-SSM-24	24V 3.2A	0.5%	150mV	84%
HF75W-SSM-48	48V 1.6A	0.5%	150mV	85%

100W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SSM-5	5V 16.0A	0.5%	100mV	75%
HF100W-SSM-12	12V 8.5A	0.5%	120mV	82%
HF100W-SSM-15	15V 6.7A	0.5%	120mV	82%
HF100W-SSM-24	24V 4.5A	0.5%	150mV	82%
HF100W-SSM-48	48V 2.3A	0.5%	150mV	83%

100W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SMF-5	5V 14.0A	0.5%	100mV	78%
HF100W-SMF-12	12V 8.5A	0.5%	120mV	83%
HF100W-SMF-15	15V 7.0A	0.5%	120mV	83%
HF100W-SMF-24	24V 4.5A	0.5%	150mV	86%
HF100W-SMF-48	48V 2.3A	0.5%	150mV	86%

150W Single Output



Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SMF-5	5V 25.0A	0.5%	100mV	80%
HF150W-SMF-12	12V 12.5A	0.5%	120mV	84%
HF150W-SMF-15	15V 10.0A	0.5%	120mV	84%
HF150W-SMF-24	24V 6.5A	0.5%	150mV	85%
HF150W-SMF-48	48V 3.1A	0.5%	150mV	87%

* Other output voltage also available, please send inquiry.

We have more than 5,000 different models showing great flexibility. Custom design products are also available to meet your individual requirements.



35W Dual Output M2 Series

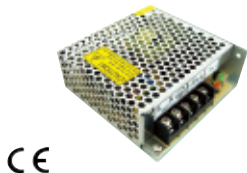


- Miniature size, high power density
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6025SSL 98.5 × 82 × 35(mm)

AC input voltage range	88~264VAC (124~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	< 1mA/ 230VAC
Voltage tolerance	V1: $\leq \pm 1\%$, V2: $\leq \pm 10\%$
Output voltage adjust range	V1: $\pm 5\%$ of rated output voltage
Output overload protection	110~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF35W-DSM-A	5V	0.3~5.0A	80mV	81%
	12V	0.2~1.0A	120mV	
HF35W-DSM-B	5V	0.3~4.0A	80mV	83%
	24V	0.2~1.3A	150mV	

50W Dual Output M2 Series



- Miniature size, high power density
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605MW 99 x 97 x 36(mm)

AC input voltage range	88~264VAC (124~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	< 1mA/ 230VAC
Voltage tolerance	V1: $\leq \pm 1\%$, V2: $\leq \pm 10\%$
Output voltage adjust range	V1: $\pm 5\%$ of rated output voltage
Output overload protection	110~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF50W-DSM-A	5V	0.3~6.0A	80mV	77%
	12V	0.3~3.0A	120mV	
HF50W-DSM-B	5V	0.3~6.0A	80mV	81%
	24V	0.2~2.0A	150mV	

65W Dual Output M2 Series

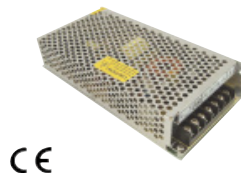


- Miniature size, high power density
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- E603 129 x 98 x 40(mm)

AC input voltage range.....	88~264VAC (124~370VDC)
Input frequency.....	47~63Hz
Inrush current.....	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Voltage tolerance.....	V1: $\leq \pm 1\%$, V2: $\leq \pm 10\%$
Output voltage adjust range.....	V1: $\pm 5\%$ of rated output voltage
Output overload protection.....	110~150%, hiccup mode, auto recovery
Output over voltage protection.....	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time.....	20ms@full load (typical)
Operating temperature.....	-20℃~+50℃
Safety standards.....	meet GB4943, UL60950, EN60950
EMC standards.....	meet GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method.....	convection

Model	DC Output		R&N	Efficiency
HF65W-DSM-A	5V	0.3~8.0A	80mV	79%
	12V	0.2~4.0A	120mV	
HF65W-DSM-B	5V	0.3~8.0A	80mV	81%
	24V	0.2~3.0A	150mV	

125W Dual Output M2 Series



- Miniature size, high power density
- AC input range selected by switch
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- E610 199 x 98 x 39(mm)

AC input voltage range.....	85~132/ 176~264VAC selected by switch
Input frequency.....	47~63Hz
Inrush current.....	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Voltage tolerance.....	V1: $\leq \pm 1\%$, V2: $\leq \pm 10\%$
Output voltage adjust range.....	V1: $\pm 5\%$ of rated output voltage
Output overload protection.....	105~130%, shut off, re-power on to recover
Output over voltage protection.....	115~150%, shut off, re-power on to recover
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time.....	20ms@full load (typical)
Operating temperature.....	-20℃~+50℃
Safety standards.....	meet GB4943, UL60950, EN60950
EMC standards.....	meet GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method.....	convection

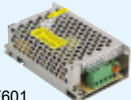
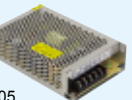
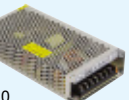
Model	DC Output		R&N	Efficiency
HF125W-DSM-A	5V	2.0~15A	100mV	82%
	12V	0.5~10A	120mV	
HF125W-DSM-B	5V	2.0~10A	100mV	82%
	24V	0.4~5.0A	150mV	

25W~350W Single Output E Series

Features:

- Economical design, competitive price
- Top international brand components for key parts
- Electrolytic capacitors all 105°C
- Compact size, high reliability
- Built-in EMI filter
- Protections: overload/ short circuit/ over voltage/ over temperature (HF350W-SE)
- 2 years warranty



Product picture							
Model No.	HF25W-SE	HF35W-SE	HF55W-SE	HF75W-SE	HF100W-SE	HF150W-SE	HF350W-SE
Dimension (mm)	100×58×31	98.5×82×35	99×97×36	129×98×40	160×98×39	199×98×39	215×115×50
Weight & packing (/CTN)	0.15kg, 108pcs	0.24kg, 60pcs	0.27kg, 42pcs	0.38kg, 42pcs	0.43kg, 30pcs	0.59kg, 28pcs	0.89kg, 16pcs
AC input voltage range	170~264VAC (210~370VDC); 85~264VAC (120~370VDC) (option, HF25W-SEK~HF75W-SEK)				170~264VAC (210~370VDC); 85~132/ 170~264VAC selected by switch (option, HF100W-SEV~HF350W-SEV)		
Input frequency	47~63Hz						
Inrush current	cold start, 40A/230VAC						60A/230VAC
Input leakage current	< 0.7mA/ 230VAC						
Line regulation (full load)	≤ ± 0.5%						
Voltage adjust range	± 10%						
Overload protection	built-in IC protection, hiccup mode	105~150%, hiccup mode, auto recovery				105~130%, shut off, re-power on to recover	
Over voltage protection	--						115~150% shut off
Withstand voltage	I/P -O/P: 1.5KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min						
Rise time	50ms@full load (typical)						
Hold up time	20ms@full load (typical)						
Operating temperature	-20℃~+70℃ (refer to the derating curve)						
Safety standards	design meet GB4943, UL60950, EN60950						
Cooling method	convection						fan

25W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF25W-SE-12	12V 2.0A	0.5%	120mV	81%
HF25W-SE-15	15V 1.6A	0.5%	120mV	82%
HF25W-SE-24	24V 1.0A	0.5%	150mV	84%
HF25W-SE-48	48V 0.5A	0.5%	150mV	85%

* 12~48VDC output all available.

35W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF35W-SE-5	5V 7.0A	0.5%	80mV	77%
HF35W-SE-12	12V 3.0A	0.5%	120mV	81%
HF35W-SE-15	15V 2.4A	0.5%	120mV	81%
HF35W-SE-24	24V 1.5A	0.5%	150mV	83%
HF35W-SE-48	48V 0.7A	0.5%	150mV	85%

* 5~48VDC output all available.

55W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF55W-SE-5	5V 10.0A	0.5%	80mV	73%
HF55W-SE-12	12V 4.6A	0.5%	120mV	80%
HF55W-SE-15	15V 3.7A	0.5%	120mV	80%
HF55W-SE-24	24V 2.3A	0.5%	150mV	83%
HF55W-SE-48	48V 1.2A	0.5%	150mV	84%

* 5~48VDC output all available.

75W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF75W-SE-12	12V 6.3A	0.5%	120mV	82%
HF75W-SE-15	15V 5.0A	0.5%	120mV	83%
HF75W-SE-24	24V 3.0A	0.5%	150mV	84%
HF75W-SE-27	27V 2.6A	0.5%	150mV	84%
HF75W-SE-48	48V 1.5A	0.5%	150mV	85%

* 12~48VDC output all available.

100W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SE-12	12V 8.5A	0.5%	120mV	81%
HF100W-SE-15	15V 7.0A	0.5%	120mV	82%
HF100W-SE-18	18V 5.6A	0.5%	150mV	83%
HF100W-SE-24	24V 4.5A	0.5%	150mV	83%
HF100W-SE-36	36V 3.0A	0.5%	150mV	84%
HF100W-SE-48	48V 2.1A	0.5%	150mV	85%

* 12~48VDC output all available.

150W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SE-5	5V 25.0A	0.5%	100mV	80%
HF150W-SE-12	12V 12.5A	0.5%	120mV	83%
HF150W-SE-15	15V 10.0A	0.5%	120mV	84%
HF150W-SE-18	18V 8.3A	0.5%	150mV	85%
HF150W-SE-24	24V 6.3A	0.5%	150mV	85%
HF150W-SE-48	48V 3.1A	0.5%	150mV	86%

* 5~48VDC output all available.

350W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF350W-SE-5	5V 60.0A	0.5%	120mV	78%
HF350W-SE-12	12V 29.0A	0.5%	150mV	80%
HF350W-SE-15	15V 23.0A	0.5%	150mV	81%
HF350W-SE-24	24V 14.6A	0.5%	150mV	84%
HF350W-SE-36	36V 9.7A	0.5%	200mV	86%
HF350W-SE-48	48V 7.3A	0.5%	240mV	86%

* 5~48VDC output all available.

The company keeps on strict quality control under ISO9001 quality system certified by SGS.



35W~100W 2~3 Output E Series



AC input voltage range.....170~264VAC (210~370VDC)
 Input frequency.....47~63Hz
 Inrush current.....cold start, 40A/230V
 Input leakage current.....< 0.7mA/ 230VAC
 Line regulation (full load)..... $\leq \pm 0.5\%$
 Output overload protection.....105~150%, hiccup mode, auto recovery
 Voltage tolerance..... $V_1: \leq \pm 1\%$, $V_2, V_3: \leq \pm 10\%$
 Output voltage adjust range..... $V_1: \pm 5\%$ of rated output voltage
 Withstand voltage.....I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time.....50ms@full load (typical)
 Hold up time.....20ms@full load (typical)
 Operating temperature.....-20°C~+70°C (refer to the derating curve)
 Safety standards.....design meet GB4943, UL60950, EN60950
 Cooling method.....convection

35W Dual Output

• F6025SL 98.5 × 82 × 35(mm)

Model	DC Output		R&N	Efficiency
HF35W-DE-A	5V	0.5~4.0A	80mV	71%
	5V	0.2~2.0A	100mV	
HF35W-DE-B	5V	0.5~4.0A	80mV	76%
	12V	0.2~2.0A	120mV	
HF35W-DE-C	5V	0.5~4.0A	80mV	77%
	24V	0.1~1.0A	150mV	
HF35W-DE-D	12V	0.2~2.0A	120mV	78%
	12V	0.2~2.0A	120mV	

55W Dual Output

• F6055SE 99 × 97 × 36(mm)

Model	DC Output		R&N	Efficiency
HF55W-DE-A	5V	0.5~6.0A	80mV	74%
	12V	0.2~2.5A	120mV	
HF55W-DE-B	5V	0.5~6.0A	80mV	77%
	24V	0.1~1.5A	150mV	
HF55W-DE-C	12V	0.2~2.3A	120mV	78%
	12V	0.2~2.3A	120mV	
HF55W-DE-D	15V	0.2~2.0A	120mV	78%
	15V	0.2~2.0A	120mV	

75W Dual Output

• F603 129 × 98 × 40(mm)

Model	DC Output		R&N	Efficiency
HF75W-DE-A	12V	0.2~5.0A	120mV	78%
	12V	0.2~2.5A	120mV	
HF75W-DE-B	12V	0.2~5.0A	120mV	78%
	15V	0.2~2.0A	120mV	
HF75W-DE-C	12V	0.2~5.0A	120mV	79%
	24V	0.2~2.0A	150mV	

Features:

- Economical design, competitive price
- Top international brand components for key parts
- Electrolytic capacitors all 105°C
- Compact size, high reliability
- Built-in EMI filter
- Protections: overload/ short circuit
- Free air cooling convection
- 2 years warranty

100W Dual Output

• F605 160 × 98 × 39(mm)

Model	DC Output		R&N	Efficiency
HF100W-DE-A	5V	2.0~15.0A	100mV	73%
	12V	0.5~5.00A	120mV	
HF100W-DE-B	5V	2.0~15.0A	100mV	74%
	15V	0.4~4.00A	120mV	
HF100W-DE-C	5V	2.0~15.0A	100mV	76%
	24V	0.3~3.00A	150mV	

35W Triple Output

• F6025SL 98.5 × 82 × 35(mm)

Model	DC Output		R&N	Efficiency
HF35W-TE-A	5V	0.5~3.5A	80mV	78%
	12V	0.1~1.2A	120mV	
	-12V	0.1~0.8A	120mV	
HF35W-TE-B	5V	0.5~3.5A	80mV	78%
	15V	0.1~0.8A	120mV	
	-15V	0.1~0.5A	120mV	
HF35W-TE-C	5V	0.5~3.5A	80mV	76%
	12V	0.1~1.2A	120mV	
	-5V	0.1~1.0A	100mV	

55W Triple Output

• F6055SE 99 × 97 × 36(mm)

Model	DC Output		R&N	Efficiency
HF55W-TE-A	5V	0.5~5.0A	80mV	78%
	12V	0.2~2.0A	120mV	
	-12V	0.2~1.5A	120mV	
HF55W-TE-B	5V	0.5~5.0A	80mV	78%
	15V	0.2~2.0A	120mV	
	-15V	0.1~1.0A	120mV	
HF55W-TE-C	5V	0.6~7.0A	80mV	76%
	12V	0.2~2.0A	120mV	
	-5V	0.1~1.5A	100mV	

75W Triple Output

• F603 129 × 98 × 40(mm)

Model	DC Output		R&N	Efficiency
HF75W-TE-A	5V	0.5~6.0A	80mV	78%
	12V	0.2~2.0A	120mV	
	-12V	0.2~1.5A	120mV	
HF75W-TE-B	5V	0.6~7.0A	80mV	78%
	15V	0.2~2.0A	120mV	
	-15V	0.1~1.0A	120mV	
HF75W-TE-C	5V	0.7~8.0A	80mV	76%
	12V	0.2~2.0A	120mV	
	-5V	0.1~1.5A	100mV	

10W~60W Single Output Standard with approval

Features:

- Traditional series, high reliability
- Universal AC input / full range
- Top international brand components for key parts
- Electrolytic capacitors all 105°C
- UL, CE approved (refer to spec. of each series)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty



Send inquiry now!

Product picture						
	F601	F602	F6025SL	F603	F605	
	Model No.	HF10W-SL	HF20W-SL	HF25W-SL	HF40W-SL	HF60W-SL
	Dimension (mm)	100×58×31	111×78×36	98.5×82×35	129×98×40	160×98×39
	Weight & packing	0.15kg, 108pcs/CTN	0.26kg, 60pcs/CTN	0.24kg, 60pcs/CTN	0.37kg, 42pcs/CTN	0.46kg, 30pcs/CTN
	AC input voltage range	85~264VAC (120~370VDC)				
Input frequency	47~63Hz					
Inrush current	cold start, 15A/115VAC, 30A/230VAC			cold start, 20A/115VAC, 40A/230VAC		
Input leakage current	< 0.7mA/ 230VAC		< 1mA/ 230VAC			
Line regulation (full load)	≤ ± 0.5%					
Voltage adjust range	± 10%					
Overload protection	built-in IC protection, hiccup mode, auto recovery			105~150%, hiccup mode, auto recovery		
Over voltage protection	clamping by zenor diode			115~150%, shut off, re-power on to recover	115~150%, hiccup mode, auto recovery	
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	50ms@full load (typical)					
Hold up time	20ms@full load (typical)					
Operating temperature	-20℃~+70℃ (refer to the derating curve)					
Safety standards	GB4943, UL60950, EN60950					
EMC standards	GB9254, EN55022 classB, EN55024, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11					
Cooling method	convection					

10W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF10W-SL-5	5V	2.0A	0.5%	80mV	71%
HF10W-SL-12	12V	0.85A	0.5%	120mV	76%
HF10W-SL-15	15V	0.7A	0.5%	120mV	76%
HF10W-SL-24	24V	0.4A	0.5%	150mV	77%
HF10W-SL-48	48V	0.2A	0.5%	150mV	79%

* 3~48VDC output all available.

40W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF40W-SL-5	5V	8.0A	0.5%	80mV	75%
HF40W-SL-12	12V	3.5A	0.5%	120mV	80%
HF40W-SL-15	15V	2.8A	0.5%	120mV	81%
HF40W-SL-24	24V	1.8A	0.5%	150mV	82%
HF40W-SL-48	48V	0.9A	0.5%	150mV	83%

* 3~48VDC output all available.

20W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF20W-SL-5	5V	4.0A	0.5%	80mV	77%
HF20W-SL-12	12V	1.7A	0.5%	120mV	81%
HF20W-SL-15	15V	1.4A	0.5%	120mV	82%
HF20W-SL-24	24V	0.8A	0.5%	150mV	82%
HF20W-SL-48	48V	0.4A	0.5%	150mV	83%

* 3~48VDC output all available.

60W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF60W-SL-5	5V	12.0A	0.5%	80mV	78%
HF60W-SL-12	12V	5.0A	0.5%	120mV	82%
HF60W-SL-15	15V	4.0A	0.5%	120mV	82%
HF60W-SL-24	24V	2.5A	0.5%	150mV	81%
HF60W-SL-48	48V	1.3A	0.5%	150mV	82%

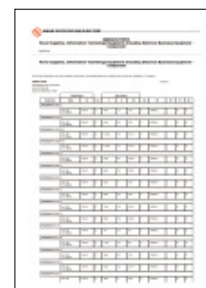
* 3~48VDC output all available.

25W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF25W-SL-3.3	3.3V	6.0A	0.5%	80mV	66%
HF25W-SL-5	5V	5.0A	0.5%	80mV	76%
HF25W-SL-12	12V	2.1A	0.5%	120mV	79%
HF25W-SL-15	15V	1.7A	0.5%	120mV	81%
HF25W-SL-24	24V	1.1A	0.5%	150mV	79%
HF25W-SL-48	48V	0.57A	0.5%	150mV	83%

* 3~48VDC output all available.



UL Certificate / 证书



CE Certificate / 证书



ROHS Certificate / 证书

70W~350W Single Output Standard with approval

Features:

- Traditional series, high reliability
- AC input range selected by switch
- Top international brand components for key parts
- Electrolytic capacitors all 105℃
- UL, CE approved (refer to spec. of each series)
- Protections: overload/ over voltage/ short circuit/ over temperature (HF350W-SF)
- 5 years limited warranty

Product picture					
	F605	F610	F615UL	F615UL	F630C
Model No.	HF70W-SF	HF100W-SF	HF150W-SF	HF240W-SF	HF350W-SF
Dimension (mm)	160×98×39	199×98×39	199×110×50	199×110×50	215×115×50
Weight & packing	0.48kg, 30pcs/CTN	0.65kg, 28pcs/CTN	0.71kg, 20pcs/CTN	0.91kg, 20pcs/CTN	0.98kg, 16pcs/CTN
AC input voltage range	85~132/ 170~264VAC selected by switch			85~132/ 170~264VAC selected by switch	
Input frequency	47~63Hz				
Inrush current	cold start, 20A/115VAC, 40A/230VAC				cold start, 30A/115VAC, 60A/230VAC
Input leakage current	< 1mA/ 230VAC				
Line regulation (full load)	≤ ± 0.5%				
Voltage adjust range	± 10%				
Overload protection	105~150%, hiccup mode, auto recovery	105~130%, shut off, re-power on to recover			
Over voltage protection	115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover			
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min				
Rise time	50ms@full load (typical)				
Hold up time	20ms@full load (typical)				
Operating temperature	-20℃~+70℃ (refer to the derating curve)				
Safety standards	GB4943, UL60950, EN60950				
EMC standards	GB9254, EN55022 classB, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11		GB9254, EN55022 classA, EN61000-4-2,3,4,5,6,8,11		
Cooling method	convection				fan

70W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF70W-SF-12	12V	6.0A	0.5%	120mV	80%
HF70W-SF-15	15V	4.7A	0.5%	120mV	80%
HF70W-SF-24	24V	3.0A	0.5%	150mV	81%
HF70W-SF-27	27V	2.6A	0.5%	150mV	80%
HF70W-SF-48	48V	1.5A	0.5%	150mV	84%

* 12~48VDC output all available.

240W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF240W-SF-5	5V	40.0A	0.5%	100mV	79%
HF240W-SF-12	12V	18.0A	0.5%	120mV	83%
HF240W-SF-15	15V	15.0A	0.5%	120mV	85%
HF240W-SF-24	24V	10.0A	0.5%	150mV	85%
HF240W-SF-30	30V	8.0A	0.5%	150mV	86%
HF240W-SF-48	48V	5.0A	0.5%	150mV	87%

* 3~48VDC output all available.

100W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SF-5	5V	20.0A	0.5%	100mV	79%
HF100W-SF-7.5	7.5V	13.5A	0.5%	100mV	79%
HF100W-SF-12	12V	8.5A	0.5%	120mV	81%
HF100W-SF-13.8	13.8V	7.5A	0.5%	120mV	83%
HF100W-SF-15	15V	6.7A	0.5%	120mV	83%
HF100W-SF-24	24V	4.5A	0.5%	150mV	84%
HF100W-SF-48	48V	2.2A	0.5%	150mV	86%

* 3~48VDC output all available.

350W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF350W-SF-5	5V	60.0A	0.5%	120mV	77%
HF350W-SF-12	12V	29.0A	0.5%	150mV	82%
HF350W-SF-15	15V	23.2A	0.5%	150mV	83%
HF350W-SF-24	24V	14.6A	0.5%	150mV	85%
HF350W-SF-27	27V	13.0A	0.5%	200mV	84%
HF350W-SF-48	48V	7.3A	0.5%	240mV	87%

* 3~48VDC output all available.

150W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SF-5	5V	30.0A	0.5%	100mV	80%
HF150W-SF-7.5	7.5V	20.0A	0.5%	100mV	80%
HF150W-SF-9	9V	16.7A	0.5%	100mV	81%
HF150W-SF-12	12V	12.5A	0.5%	120mV	83%
HF150W-SF-24	24V	6.5A	0.5%	150mV	84%
HF150W-SF-27	27V	5.6A	0.5%	150mV	84%
HF150W-SF-36	36V	4.2A	0.5%	150mV	85%

* 3~48VDC output all available.



TUV Certificate / 证书



CB Certificate / 证书



CCC Certificate / 证书

75W~480W Single Output PFC Series

Features:

- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Built-in active PFC
- UL,TUV,CB,CE,CCC approved (refer to spec. of each series)
- Protections: overload/ over voltage/ short circuit/ over temperature (HF200W-SC, HF320W-SC, HF480W-SC)
- Built in fan speed control (HF200W-SC, HF320W-SC, HF480W-SC)
- No load power consumption<0.5W (HF75W-SC)
- Built in remote sense (option) (HF480W-SC)
- Remote ON/OFF control (option) (HF480W-SC)
- 5 years limited warranty

Product picture						
Model No.	HF75W-SC	HF100W-SC	HF150W-SC	HF200W-SC	HF320W-SC	HF480W-SC
Dimension (mm)	129×98×38	179×99×45	199×99×50	199×99×50	215×115×50	278×127×43
Weight & packing (/CTN)	0.43kg/pcs, 42pcs	0.60kg/pcs, 20pcs	0.72kg/pcs, 20pcs	0.81kg/pcs, 20pcs	1.06kg/pcs, 16pcs	1.62kg/pcs, 10pcs
AC input voltage range	85~264VAC (120~370VDC)					
Input frequency	47~63Hz					
Inrush current	cold start, 35A/115VAC 65A/230VAC	cold start, 20A/115VAC, 40A/230VAC			cold start, 30A/115VAC, 60A/230VAC	
Input leakage current	< 1mA/ 230VAC					
Line regulation (full load)	≤ ± 0.5%					
Voltage adjust range	± 10%					
Overload protection	105~135%, current limiting, auto recovery	105~150%, current limiting, auto recovery			105~150%, hiccup mode, auto recovery	105~130%, current limiting, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover	115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover			
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	50ms@full load (typical)					
Hold up time	20ms@full load (typical)					
Operating temperature	-20℃~+70℃ (refer to the derating curve)					
Safety standards	GB4943, UL60950, EN60950					
EMC standards	GB9254, EN55022 classB, EN55024, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11					
Cooling method	convection			fan		

75W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF75W-SC-5	5V	15.0A	2.0%	80mV	82.5%
HF75W-SC-12	12V	6.3A	1.0%	120mV	87.0%
HF75W-SC-24	24V	3.2A	0.5%	150mV	88.5%
HF75W-SC-48	48V	1.6A	0.5%	150mV	89.0%

* 3~48VDC output all available.

100W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SC-3.3	3.3V	20.0A	0.5%	100mV	70%
HF100W-SC-5	5V	20.0A	0.5%	100mV	77%
HF100W-SC-7.5	7.5V	13.5A	0.5%	100mV	79%
HF100W-SC-12	12V	8.5A	0.5%	120mV	82%
HF100W-SC-15	15V	6.7A	0.5%	120mV	83%
HF100W-SC-24	24V	4.2A	0.5%	150mV	84%
HF100W-SC-48	48V	2.1A	0.5%	150mV	84%

* 3~48VDC output all available.

150W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SC-3.3	3.3V	30.0A	0.5%	100mV	73%
HF150W-SC-5	5V	30.0A	0.5%	100mV	79%
HF150W-SC-7.5	7.5V	20.0A	0.5%	100mV	81%
HF150W-SC-12	12V	12.5A	0.5%	120mV	84%
HF150W-SC-13.5	13.5V	11.2A	0.5%	120mV	85%
HF150W-SC-15	15V	10.0A	0.5%	120mV	85%
HF150W-SC-24	24V	6.3A	0.5%	150mV	86%
HF150W-SC-48	48V	3.2A	0.5%	150mV	86%

* 3~48VDC output all available.

200W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF200W-SC-3.3	3.3V	40.0A	0.5%	100mV	70%
HF200W-SC-5	5V	40.0A	0.5%	100mV	76%
HF200W-SC-7.5	7.5V	26.7A	0.5%	100mV	80%
HF200W-SC-12	12V	16.7A	0.5%	120mV	81%
HF200W-SC-13.5	13.5V	15.0A	0.5%	120mV	82%
HF200W-SC-15	15V	13.5A	0.5%	120mV	83%
HF200W-SC-24	24V	8.4A	0.5%	150mV	84%
HF200W-SC-48	48V	4.2A	0.5%	150mV	85%

* 3~48VDC output all available.

320W Single Output



Model	DC Output		Load regul.	R&N	Efficiency
HF320W-SC-5	5V	60.0A	0.5%	120mV	78%
HF320W-SC-7.5	7.5V	40.0A	0.5%	120mV	78%
HF320W-SC-12	12V	25.0A	0.5%	150mV	83%
HF320W-SC-13.5	13.5V	22.0A	0.5%	150mV	83%
HF320W-SC-15	15V	20.0A	0.5%	150mV	84%
HF320W-SC-24	24V	13.0A	0.5%	150mV	86%
HF320W-SC-27	27V	11.7A	0.5%	200mV	87%
HF320W-SC-48	48V	6.7A	0.5%	240mV	88%

* 3~48VDC output all available.

480W Single Output



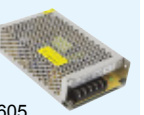
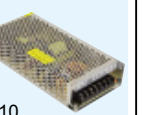
Model	DC Output		Load regul.	R&N	Efficiency
HF480W-SC-12	12V	43A	0.5%	150mV	85%
HF480W-SC-15	15V	35A	0.5%	150mV	85%
HF480W-SC-24	24V	22A	0.5%	150mV	87%
HF480W-SC-48	48V	11A	0.5%	240mV	89%

* 12~48VDC output all available.

10W~150W Single Output Standard Series

Features:

- Traditional series, high reliability
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Top international brand components for key parts
- Protections: overload/ short circuit
- 5 years limited warranty

Product picture							
	F601	F602	F603	F605	F605	F610	F615
Model No.	HF10W-S	HF20W-S	HF35W-S	HF55W-S	HF70W-S	HF100W-S	HF150W-S
Dimension (mm)	100×58×31	111×78×36	129×98×40	160×98×39	160×98×39	199×98×39	199×98×50
Weight & packing (/CTN)	0.13kg/pcs, 108pcs	0.25kg/pcs, 60pcs	0.34kg/pcs, 42pcs	0.43kg/pcs, 30pcs	0.44kg/pcs, 30pcs	0.58kg/pcs, 28pcs	0.66kg/pcs, 20pcs
AC input voltage range	170~264VAC (210~370VDC)						
Input frequency	47~63Hz						
Inrush current	cold start, 30A/230VAC		cold start, 40A/230VAC				
Input leakage current	< 0.7mA/ 230VAC						
Line regulation (full load)	≤ ± 0.5%						
Voltage adjust range	± 10%						
Overload protection	105~150, hiccup mode, auto recover	105~150%		105~150%, hiccup mode, auto recovery		105~130%, shut off, re-power on to recover	
Withstand voltage	I/P -O/P: 1.5KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min						
Rise time	50ms@full load (typical)						
Hold up time	20ms@full load (typical)						
Operating temperature	-20℃~+70℃ (refer to the derating curve)						
Safety standards	design meet GB4943, UL60950, EN60950						
Cooling method	convection						

10W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF10W-S-5	5V 2.0A	0.5%	80mV	71%
HF10W-S-12	12V 1.0A	0.5%	120mV	76%
HF10W-S-15	15V 0.8A	0.5%	120mV	78%
HF10W-S-24	24V 0.5A	0.5%	150mV	79%
HF10W-S-48	48V 0.2A	0.5%	150mV	80%

* 3~48VDC output all available.

20W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF20W-S-5	5V 4.0A	0.5%	80mV	70%
HF20W-S-12	12V 2.0A	0.5%	120mV	76%
HF20W-S-15	15V 1.5A	0.5%	120mV	77%
HF20W-S-24	24V 1.0A	0.5%	150mV	78%
HF20W-S-48	48V 0.5A	0.5%	150mV	79%

* 3~48VDC output all available.

35W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF35W-S-5	5V 7.0A	0.5%	80mV	73%
HF35W-S-12	12V 3.0A	0.5%	120mV	76%
HF35W-S-15	15V 2.4A	0.5%	120mV	79%
HF35W-S-18	18V 2.0A	0.5%	150mV	79%
HF35W-S-24	24V 1.5A	0.5%	150mV	79%
HF35W-S-48	48V 0.7A	0.5%	150mV	80%

* 3~48VDC output all available.

55W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF55W-S-5	5V 11.0A	0.5%	80mV	74%
HF55W-S-12	12V 4.6A	0.5%	120mV	78%
HF55W-S-15	15V 3.7A	0.5%	120mV	79%
HF55W-S-18	18V 3.0A	0.5%	150mV	80%
HF55W-S-24	24V 2.3A	0.5%	150mV	81%
HF55W-S-48	48V 1.2A	0.5%	150mV	82%

* 3~48VDC output all available.

70W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF70W-S-12	12V 6.0A	0.5%	120mV	80%
HF70W-S-15	15V 4.7A	0.5%	120mV	81%
HF70W-S-18	18V 4.0A	0.5%	150mV	81%
HF70W-S-24	24V 3.0A	0.5%	150mV	82%
HF70W-S-27	27V 2.6A	0.5%	150mV	84%
HF70W-S-48	48V 1.5A	0.5%	150mV	85%

* 12~48VDC output all available.

100W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-S-5	5V 20.0A	0.5%	100mV	78%
HF100W-S-12	12V 9.0A	0.5%	120mV	82%
HF100W-S-13.8	13.8V 8.0A	0.5%	120mV	81%
HF100W-S-15	15V 7.0A	0.5%	120mV	83%
HF100W-S-18	18V 7.0A	0.5%	150mV	84%
HF100W-S-24	24V 5.0A	0.5%	150mV	85%
HF100W-S-36	36V 3.0A	0.5%	150mV	86%
HF100W-S-48	48V 2.1A	0.5%	150mV	86%

* 3~48VDC output all available.

150W Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-S-5	5V 30.0A	0.5%	100mV	79%
HF150W-S-12	12V 12.5A	0.5%	120mV	82%
HF150W-S-15	15V 10.0A	0.5%	150mV	83%
HF150W-S-24	24V 6.3A	0.5%	150mV	84%
HF150W-S-28	28V 6.0A	0.5%	150mV	85%
HF150W-S-36	36V 4.2A	0.5%	150mV	85%
HF150W-S-48	48V 3.1A	0.5%	150mV	85%

* 3~48VDC output all available.

High reliability - Only international brand components are adopted for our key parts to ensure long lifetime and high reliability.



200W~1000W Single Output Series

Features:

- Traditional series, high reliability
- Top international brand components for key parts
- Electrolytic capacitors all 105°C

- Built in fan speed control (HF300W-S, HF350W-S, HF400W-S)
- Forced air cooling by built in fan (HF500W-S ~ HF1000W-S)
- Protections: overload/ short circuit/ over voltage/ over temperature (except HF200W-S)
- 5 years limited warranty

Product picture					
	F620	F630	F630C	F630	F650
Model No.	HF200W-S	HF300W-S	HF350W-S	HF400W-S	HF500W-S ~ HF1000W-S
Dimension (mm)	200×110×50	241×124×65	215×115×50	241×124×65	250×160×87
Weight & packing	0.83kg/pcs, 20pcs/CTN	1.20kg/pcs, 16pcs/CTN	0.98kg/pcs, 16pcs/CTN	1.20kg/pcs, 16pcs/CTN	2.8~3.0kg/pcs, 6pcs/CTN
AC input voltage range	170~264VAC (210~370VDC)				
Input frequency	47~63Hz				
Inrush current	cold start, 40A/230VAC		cold start, 60A/230VAC		
Input leakage current	< 0.7mA/ 230VAC				< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%				
Voltage adjust range	± 10%				
Overload protection	105~130%, shut off, re-power on to recover	105~130%, current limiting, auto recovery	105~130%, shut off, re-power on to recover	105~130%, current limiting, auto recovery	
Over voltage protection	--	115~150%, shut off, re-power on to recover			
Withstand voltage	I/P -O/P: 1.5KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min				
Rise time	50ms@full load (typical)				
Hold up time	20ms@full load (typical)				
Operating temperature	-20℃~+70℃ (refer to the derating curve)				
Safety standards	design meet GB4943, UL60950, EN60950				
Cooling method	convection	fan			

200W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-S-5	5V	40.0A	0.5%	100mV	80%
HF200W-S-9	9V	22.0A	0.5%	100mV	82%
HF200W-S-12	12V	16.7A	0.5%	120mV	84%
HF200W-S-15	15V	15.0A	0.5%	150mV	85%
HF200W-S-24	24V	10.0A	0.5%	150mV	85%
HF200W-S-27	27V	8.0A	0.5%	150mV	87%
HF200W-S-36	36V	7.0A	0.5%	150mV	88%
HF200W-S-48	48V	5.0A	0.5%	150mV	87%

* 3~48VDC output all available.

300W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-S-5	5V	60.0A	0.5%	120mV	78%
HF300W-S-12	12V	25.0A	0.5%	150mV	84%
HF300W-S-15	15V	20.0A	0.5%	150mV	84%
HF300W-S-24	24V	12.5A	0.5%	150mV	87%
HF300W-S-28	28V	11.0A	0.5%	200mV	87%
HF300W-S-48	48V	6.3A	0.5%	240mV	88%

* 3~48VDC output all available.

350W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-S-5	5V	60.0A	0.5%	120mV	77%
HF350W-S-7.5	7.5V	40.0A	0.5%	120mV	80%
HF350W-S-12	12V	29.0A	0.5%	150mV	82%
HF350W-S-13.5	13.5V	25.8A	0.5%	150mV	83%
HF350W-S-15	15V	23.2A	0.5%	150mV	84%
HF350W-S-24	24V	14.6A	0.5%	150mV	84%
HF350W-S-27	27V	13.0A	0.5%	200mV	86%
HF350W-S-48	48V	7.3A	0.5%	240mV	86%

* 3~48VDC output all available.

400W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF400W-S-12	12V	33.0A	0.5%	150mV	83%
HF400W-S-24	24V	17.0A	0.5%	150mV	86%
HF400W-S-32	32V	14.0A	0.5%	200mV	86%
HF400W-S-36	36V	13.0A	0.5%	200mV	86%
HF400W-S-48	48V	8.3A	0.5%	240mV	85%

* 12~48VDC output all available.

500W~700W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF500W-S-12	12V	42.0A	0.5%	150mV	83%
HF500W-S-24	24V	21.0A	0.5%	150mV	84%
HF500W-S-48	48V	10.0A	0.5%	240mV	88%
HF600W-S-24	24V	25.0A	0.5%	150mV	86%
HF600W-S-32	32V	20.0A	0.5%	200mV	87%
HF600W-S-48	48V	13.0A	0.5%	240mV	88%
HF700W-S-48	48V	15.0A	0.5%	240mV	88%

800W~1000W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF800W-S-24	24V	33.0A	0.5%	150mV	84%
HF800W-S-28	28V	30.0A	0.5%	200mV	88%
HF800W-S-30	30V	27.0A	0.5%	200mV	88%
HF800W-S-48	48V	17.0A	0.5%	240mV	88%
HF900W-S-30	30V	30.0A	0.5%	200mV	86%
HF1000W-S-24	24V	42.0A	0.5%	150mV	84%
HF1000W-S-27	27V	40.0A	0.5%	200mV	87%
HF1000W-S-28	28V	35.0A	0.5%	200mV	87%
HF1000W-S-48	48V	21.0A	0.5%	240mV	88%

70W Single Output with CCC approval



New

- Universal AC input / full range
- High reliability
- Approvals: CCC
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160×98×39(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Packing 0.48kg/pcs, 30pcs/CTN

Model	DC Output	Load regul.	R&N	Efficiency
HF70W-SL-5	5V 12.0A	0.5%	80mV	75%
HF70W-SL-12	12V 5.8A	0.5%	120mV	80%
HF70W-SL-24	24V 3.0A	0.5%	150mV	82%
HF70W-SL-48	48V 1.5A	0.5%	150mV	83%

* 5~48VDC output all available.

800W Parallel (N+1) with PFC



New

- PF>0.98@230VAC
- Built in remote sense
- Remote ON/OFF control
- Built in power good signal output
- Can adjust from 20~100% output voltage by external control 1-5V
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F680SCN 290×121×68(mm)

AC input voltage range 180~260VAC (260~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 30A/115VAC, 60A/230VAC
 Input leakage current < 2mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 3%
 Output overload protection 105~115%, current limiting, delay shut down, re-power on to recover
 Output over voltage protection 110~135%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB
 Cooling method fan
 Weight 2.7kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF800W-SCN-12	12V 66A	0.5%	120mV	84%
HF800W-SCN-24	24V 33A	0.5%	240mV	88%
HF800W-SCN-48	48V 16A	0.5%	480mV	89%
HF800W-SCN-60	60V 13A	0.5%	500mV	90%

* 12~60VDC output all available.

320W PFC Series - Voltage Programmable



CE

- Universal AC input / full range
- Built-in active PFC, PF>0.92@230VAC
- Output voltage programmable from 30~110V by 0~5VDC external signal
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630C 215×115×50(mm)

AC input voltage range 88~264VAC (124~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 30A/115VAC, 60A/230VAC
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method fan
 Packing 1.05kg/pcs, 16pcs/CTN

Model	DC Output	Load regul.	R&N	Efficiency
HF320W-SCR-24	24V 12.5A	0.5%	150mV	85%
HF320W-SCR-48	48V 6.25A	0.5%	240mV	86%

* 24~48VDC output all available.

2400W Parallel (N+1) with PFC



CE

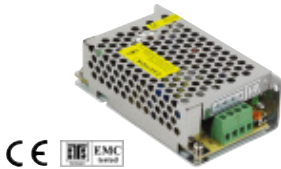
- PF>0.95@230VAC
- Built in remote sense
- Remote ON/OFF control
- Built in 12V0.1A auxiliary output for remote control
- Alarm signal output
- Current sharing up to 3 units
- Protections: overload/ over voltage/ over temperature/ short circuit/ fan alarm
- 5 years limited warranty
- F6240CN 278×177.8×63.5(mm)

AC input voltage range 180~264VAC (260~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 30A/115VAC, 60A/230VAC
 Input leakage current < 2mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 100~112%, current limiting, delay shut down, re-power on to recover
 Output over voltage protection 115~140%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB
 Cooling method fan
 Weight 3.3kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF2400W-SCN-12	12V 166.7A	0.5%	150mV	87%
HF2400W-SCN-24	24V 100.0A	0.5%	150mV	90%
HF2400W-SCN-48	48V 50.0A	0.5%	200mV	91%

* 12~48VDC output all available.

10W Dual Output Standard with approval

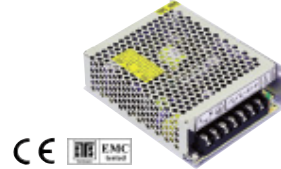


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection clamping by zenor diode
 Withstand voltage I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF10W-DL-A	5V	0.20~1.8A	80mV	67%
	5V	0.10~1.0A	100mV	
HF10W-DL-B	5V	0.20~1.8A	80mV	72%
	12V	0.10~0.5A	120mV	
HF10W-DL-C	5V	0.20~1.8A	80mV	72%
	15V	0.10~0.5A	120mV	
HF10W-DL-D	5V	0.20~0.8A	80mV	70%
	24V	0.0~0.25A	150mV	

30W Dual Output Standard with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF30W-DF-A	5V	0.5~4.0A	80mV	68%
	5V	0.0~1.5A	100mV	
HF30W-DF-B	5V	0.5~3.5A	80mV	68%
	12V	0.0~1.0A	120mV	
HF30W-DF-C	5V	0.4~2.0A	80mV	71%
	24V	0.0~0.8A	150mV	
HF30W-DF-D	12V	0.2~1.5A	120mV	70%
	12V	0.0~1.0A	120mV	

20W Dual Output Standard with approval



- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection clamping by zenor diode
 Withstand voltage I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-DL-A	5V	0.5~3.0A	80mV	70%
	5V	0.0~1.0A	100mV	
HF20W-DL-B	5V	0.4~2.0A	80mV	73%
	12V	0.0~1.0A	120mV	
HF20W-DL-C	5V	0.2~1.0A	80mV	73%
	15V	0.0~1.0A	120mV	
HF20W-DL-D	5V	0.4~2.0A	80mV	74%
	24V	0.0~0.5A	150mV	

40W Dual Output Standard with approval

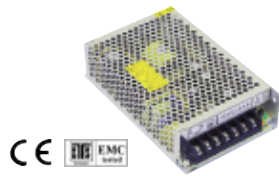


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF40W-DL-A	5V	1.0~5.0A	80mV	69%
	5V	0.0~2.0A	100mV	
HF40W-DL-B	5V	0.5~3.0A	80mV	74%
	12V	0.0~2.0A	120mV	
HF40W-DL-C	5V	0.4~2.0A	80mV	73%
	24V	0.0~1.0A	150mV	
HF40W-DL-D	12V	0.5~2.5A	120mV	77%
	12V	0.0~1.5A	120mV	

50W Dual Output Standard with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF50W-DF-A	5V	1.0~6.0A	80mV	70%
	12V	0.0~2.0A	120mV	
HF50W-DF-B	5V	1.0~5.0A	80mV	71%
	24V	0.0~1.0A	150mV	
HF50W-DF-C	12V	0.4~2.0A	120mV	73%
	12V	0.0~2.0A	120mV	
HF50W-DF-D	27V	0.2~1.0A	150mV	74%
	27V	0.2~1.0A	150mV	

70W Dual Output Standard with approval

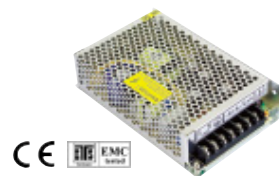


- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF70W-DF-A	12V	0.5~4.0A	120mV	79%
	12V	0.0~2.0A	120mV	
HF70W-DF-B	12V	0.5~4.5A	120mV	78%
	15V	0.0~1.0A	120mV	
HF70W-DF-C	12V	0.2~5.0A	120mV	79%
	24V	0.0~2.0A	150mV	

60W Dual Output Standard with approval

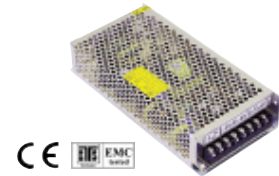


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF60W-DL-A	5V	1.0~6.0A	80mV	76%
	12V	0.0~2.5A	120mV	
HF60W-DL-B	5V	0.3~6.0A	80mV	79%
	24V	0.4~2.0A	150mV	
HF60W-DL-C	12V	0.4~2.3A	120mV	78%
	12V	0.0~2.3A	120mV	
HF60W-DL-D	15V	0.3~3.0A	120mV	82%
	15V	0.2~2.5A	120mV	

100W Dual Output Standard with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, shut off, re-power on to recover
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-DF-A	5V	2.0~10.0A	100mV	74%
	12V	0.0~4.0A	120mV	
HF100W-DF-B	5V	3.0~15.0A	100mV	80%
	15V	0.0~2.0A	120mV	
HF100W-DF-C	5V	2.0~15.0A	100mV	80%
	24V	0.6~3.0A	150mV	
HF100W-DF-G	24V	0.5~4.0A	150mV	81%
	5V	0.0~2.0A	100mV	

10W Dual Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF10W-D-A	5V	0.3~1.5A	80mV	66%
	5V	0.0~0.3A	100mV	
HF10W-D-B	5V	0.3~1.5A	80mV	69%
	12V	0.0~0.3A	120mV	
HF10W-D-C	5V	0.2~1.2A	80mV	68%
	15V	0.0~0.2A	120mV	
HF10W-D-D	5V	0.2~1.2A	80mV	71%
	24V	0.0~0.2A	150mV	

35W Dual Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF35W-D-B	5V	0.5~5.0A	80mV	77%
	12V	0.0~2.0A	120mV	
HF35W-D-C	5V	0.5~5.0A	80mV	78%
	24V	0.0~1.0A	150mV	
HF35W-D-M	12V	0.2~2.5A	120mV	75%
	-12V	0.0~1.0A	120mV	
HF35W-D-K	15V	0.2~1.2A	120mV	81%
	-15V	0.0~1.2A	120mV	

20W Dual Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-D-A	5V	0.5~3.0A	80mV	62%
	5V	0.0~1.0A	100mV	
HF20W-D-B	5V	0.4~3.0A	80mV	70%
	12V	0.0~1.0A	120mV	
HF20W-D-C	5V	0.5~3.0A	80mV	70%
	15V	0.0~0.5A	120mV	
HF20W-D-D	5V	0.4~2.0A	80mV	71%
	24V	0.0~0.5A	150mV	

55W Dual Output Standard Series

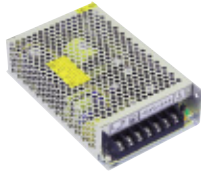


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF55W-D-A	5V	0.5~7.0A	80mV	77%
	12V	0.0~2.0A	120mV	
HF55W-D-B	5V	0.5~6.0A	80mV	76%
	24V	0.0~2.0A	150mV	
HF55W-D-L	15V	0.4~2.0A	120mV	78%
	-15V	0.0~2.0A	120mV	
HF55W-D-S	12V	0.4~2.3A	120mV	75%
	-12V	0.0~2.3A	120mV	
HF55W-D-V	24V	0.2~1.2A	150mV	79%
	-24V	0.0~1.2A	150mV	

70W Dual Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF70W-D-C	12V	0.4~2.0A	120mV	77%
	24V	0.0~2.0A	150mV	
HF70W-D-F	24V	0.5~2.5A	150mV	85%
	5V	0.0~2.0A	100mV	
HF70W-D-G	24V	0.5~2.5A	150mV	81%
	12V	0.0~2.0A	120mV	
HF70W-D-H	5V	0.5~3.0A	100mV	75%
	24V	0.0~2.0A	150mV	

150W Dual Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F615 199 × 98 × 50(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$ (with regulator);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF150W-D-D	24V	0.0~5.0A	150mV	84%
	12V	0.0~3.0A	120mV	
HF150W-D-G	24V	0.0~6.0A	150mV	82%
	5V	0.0~3.0A	100mV	
HF150W-D-L	15V	0.5~5.0A	120mV	85%
	-15V	0.5~5.0A	120mV	
HF150W-D-Q	24V	0.5~4.0A	150mV	88%
	-24V	0.5~4.0A	150mV	

100W Dual Output Standard Series

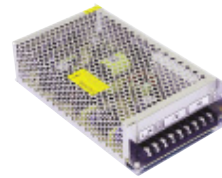


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-D-A	5V	2.0~10.0A	100mV	75%
	12V	0.0~4.0A	120mV	
HF100W-D-C	5V	2.0~15.0A	100mV	77%
	24V	0.0~3.0A	150mV	
HF100W-D-G	24V	0.0~4.0A	150mV	81%
	5V	0.0~3.0A	100mV	
HF100W-D-L/A1	15V	0.5~3.0A	120mV	78%
	-15V	0.0~3.0A	120mV	

200W Dual Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F620 200 × 110 × 50(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF200W-D-A	24V	1.0~8.0A	150mV	86%
	12V	0.0~3.0A	120mV	
HF200W-D-D	24V	1.0~9.0A	150mV	84%
	5V	0.0~2.0A	100mV	
HF200W-D-E	12V	2.0~12.0A	120mV	83%
	24V	0.0~2.0A	150mV	
HF200W-D-G	24V	1.0~7.0A	150mV	85%
	24V	0.0~1.5A	150mV	

300W Dual Output Standard Series



- High reliability, low cost
- Built-in fan speed control
- Built-in EMI filter
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 × 124 × 65(mm)

AC input voltage range	170~264VAC (210~370VDC)
Inrush current	cold start, 60A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Voltage tolerance.....	V ₁ : ≤ ± 1%, V ₂ : ≤ ± 3%
Output voltage adjust range	V ₁ : ± 5% of rated output voltage
Output overload protection	105~130%, current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	fan

Model	DC Output		R&N	Efficiency
HF300W-D-A	24V	2.0~11.0A	150mV	84%
	5V	0.0~2.5A	120mV	
HF300W-D-B	24V	2.0~11.0A	150mV	84%
	12V	0.0~3.0A	150mV	
HF300W-D-D	27V	2.0~10.0A	200mV	84%
	12V	0.0~3.0A	150mV	
HF300W-D-J	12V	4.0~20.0A	150mV	82%
	-12V	0.0~3.0A	150mV	

400W Dual Output Standard Series

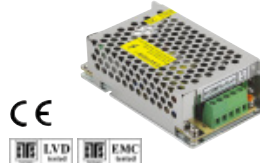


- High reliability, low cost
- Built-in fan speed control
- Built-in EMI filter
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 × 124 × 65(mm)

AC input voltage range	170~264VAC (210~370VDC)
Inrush current	cold start, 60A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Voltage tolerance	V ₁ : ≤ ± 1%, V ₂ : ≤ ± 3%
Output voltage adjust range	V ₁ : ± 5% of rated output voltage
Output overload protection	105~130%, current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	fan

Model	DC Output		R&N	Efficiency
HF400W-D-A	24V	3.0~16.0A	150mV	84%
	12V	0.0~1.0A	150mV	
HF400W-D-C	24V	3.0~15.0A	150mV	83%
	5V	0.0~3.0A	120mV	
HF400W-D-G	36V	2.0~10.0A	200mV	83%
	24V	0.0~2.0A	150mV	

10W Triple Output Standard with approval



- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

AC input voltage range	85~264VAC (120~370VDC)
Inrush current	cold start, 15A/115V, 30A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Voltage tolerance.....	V ₁ : ≤ ± 1%, V ₂ , V ₃ : ≤ ± 3% (with regulators); ≤ ± 10% (without)
Output voltage adjust range	V ₁ : ± 5% of rated output voltage
Output overload protection	built-in IC protection, hiccup mode, auto recovery
Output over voltage protection	clamping by zenor diode
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise, Hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃ ~+50℃
Safety standards	GB4943, UL60950, EN60950
EMC standards.....	GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF10W-TL-A	5V	0.3~1.5A	80mV	70%
	+12V	0.0~0.2A	120mV	
	-12V	0.0~0.1A	120mV	
HF10W-TL-B	5V	0.2~1.3A	80mV	70%
	+15V	0.0~0.2A	120mV	
	-15V	0.0~0.1A	120mV	
HF10W-TL-C	5V	0.2~1.4A	80mV	68%
	+12V	0.0~0.15A	120mV	
	-5V	0.0~0.1A	80mV	

20W Triple Output Standard with approval

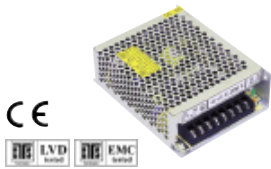


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range.....	85~264VAC (120~370VDC)
Inrush current.....	cold start, 15A/115V, 30A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load).....	≤ ± 0.5%
Voltage tolerance.....	V _I : ≤ ± 1%, V ₂ , V ₃ : ≤ ± 3% (with regulators); ≤ ± 10% (without)
Output voltage adjust range.....	V _I : ± 5% of rated output voltage
Output overload protection.....	built-in IC protection, hiccup mode, auto recovery
Output over voltage protection.....	clamping by zenor diode
Withstand voltage.....	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise, Hold up time.....	50ms, 20ms@full load (typical)
Operating temperature.....	-20℃~+50℃
Safety standards.....	GB4943, UL60950, EN60950
EMC standards.....	GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method.....	convection

Model	DC Output		R&N	Efficiency
HF20W-TL-A	5V	0.4~2.0A	80mV	69%
	+12V	0.0~0.5A	120mV	
	-12V	0.0~0.35A	120mV	
HF20W-TL-B	5V	0.5~2.5A	80mV	74%
	+15V	0.0~0.25A	120mV	
	-15V	0.0~0.25A	120mV	
HF20W-TL-C	5V	0.5~2.5A	80mV	68%
	+12V	0.0~0.5A	120mV	
	-5V	0.0~0.35A	80mV	

30W Triple Output Standard with approval

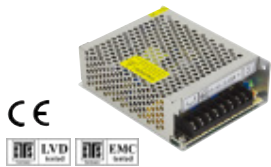


- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF30W-TF-A	5V	0.5~3.0A	80mV	66%
	+12V	0.0~1.0A	120mV	
	-12V	0.0~0.3A	120mV	
HF30W-TF-B	5V	0.5~3.5A	80mV	68%
	+15V	0.1~0.8A	120mV	
	-15V	0.0~0.5A	120mV	
HF30W-TF-C	5V	0.6~3.2A	80mV	68%
	+12V	0.0~1.0A	120mV	
	-12V	0.0~0.35A	120mV	

40W Triple Output Standard with approval

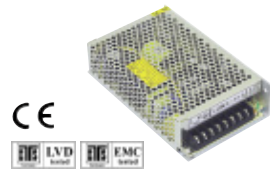


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF40W-TL-A	5V	0.5~4.0A	80mV	77%
	+12V	0.0~1.0A	120mV	
	-12V	0.0~0.7A	120mV	
HF40W-TL-B	5V	0.5~4.0A	80mV	70%
	+15V	0.0~1.0A	120mV	
	-15V	0.0~0.3A	120mV	
HF40W-TL-C	5V	0.5~4.0A	80mV	68%
	+12V	0.0~1.0A	120mV	
	-5V	0.0~0.5A	80mV	

50W Triple Output Standard with approval

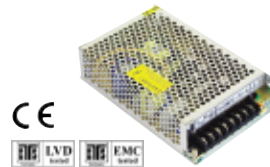


- AC input range selected by switch
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF50W-TF-A	5V	0.5~4.0A	80mV	72%
	+12V	0.0~1.5A	120mV	
	-12V	0.0~1.0A	120mV	
HF50W-TF-B	5V	0.5~4.0A	80mV	75%
	+15V	0.0~1.0A	120mV	
	-15V	0.0~1.0A	120mV	
HF50W-TF-C	5V	1.0~5.0A	80mV	68%
	+12V	0.0~2.0A	120mV	
	-5V	0.0~0.92A	80mV	

60W Triple Output Standard with approval

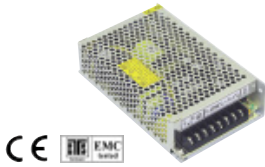


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF60W-TL-A	5V	1.0~6.0A	80mV	74%
	+12V	0.0~1.5A	120mV	
	-12V	0.0~1.0A	120mV	
HF60W-TL-B	5V	1.0~5.0A	80mV	76%
	+15V	0.0~2.0A	120mV	
	-15V	0.0~0.83A	120mV	
HF60W-TL-C	5V	1.5~8.0A	80mV	75%
	+12V	0.0~1.2A	120mV	
	-5V	0.0~0.37A	80mV	

70W Triple Output Standard with approval

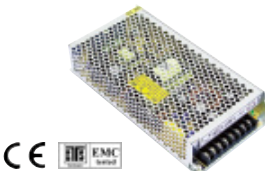


- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF70W-TF-A	5V	1.0~6.0A	80mV	70%
	+12V	0.0~2.0A	120mV	
	-12V	0.0~1.33A	120mV	
HF70W-TF-B	5V	1.0~6.5A	80mV	72%
	+15V	0.0~1.5A	120mV	
	-15V	0.0~1.0A	120mV	
HF70W-TF-C	5V	1.5~8.0A	80mV	70%
	+12V	0.0~2.0A	120mV	
	-5V	0.0~0.4A	80mV	

100W Triple Output Standard with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, shut off, re-power on to recover
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-TF-A	5V	2.0~12.0A	100mV	74%
	+12V	0.0~2.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF100W-TF-B	5V	2.0~10.0A	100mV	74%
	+15V	0.0~2.0A	120mV	
	-15V	0.0~1.0A	120mV	

10W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF10W-T-A	5V	0.3~1.5A	80mV	68%
	+12V	0.0~0.2A	120mV	
	-12V	0.0~0.1A	120mV	
HF10W-T-B	5V	0.2~1.3A	80mV	69%
	+15V	0.0~0.2A	120mV	
	-15V	0.0~0.1A	120mV	
HF10W-T-C	5V	0.2~1.2A	80mV	63%
	+12V	0.0~0.25A	120mV	
	-5V	0.0~0.2A	80mV	

20W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-T-A	5V	0.3~3.0A	80mV	69%
	+12V	0.0~1.0A	120mV	
	-12V	0.0~0.5A	120mV	
HF20W-T-B	5V	0.4~2.0A	80mV	68%
	+15V	0.0~0.35A	120mV	
	-15V	0.0~0.35A	120mV	
HF20W-T-C	5V	0.4~2.0A	80mV	70%
	+12V	0.0~0.5A	120mV	
	-5V	0.0~1.0A	80mV	

35W Triple Output Standard Series

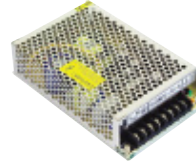


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF35W-T-A	5V	0.5~4.0A	80mV	67%
	+12V	0.0~1.2A	120mV	
	-12V	0.0~1.0A	120mV	
HF35W-T-B	5V	0.5~4.0A	80mV	70%
	+15V	0.0~0.5A	120mV	
	-15V	0.0~0.5A	120mV	
HF35W-T-C	5V	0.5~3.0A	80mV	65%
	+12V	0.0~1.0A	120mV	
	-5V	0.0~1.0A	80mV	

70W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF70W-T-A	5V	0.8~6.0A	80mV	73%
	12V	0.0~2.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF70W-T-B	5V	1.0~7.0A	80mV	77%
	+15V	0.0~1.5A	120mV	
	-15V	0.0~1.0A	120mV	
HF70W-T-H	5V	1.0~5.0A	80mV	73%
	12V	0.0~1.0A	120mV	
	24V	0.0~1.0A	150mV	

55W Triple Output Standard Series

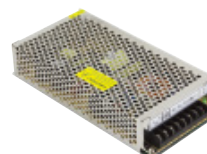


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF55W-T-A	5V	1.0~6.0A	80mV	72%
	+12V	0.0~1.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF55W-T-B	5V	1.0~5.0A	80mV	70%
	+15V	0.0~1.0A	120mV	
	-15V	0.0~1.0A	120mV	
HF55W-T-C	5V	1.0~5.0A	80mV	69%
	+12V	0.0~1.5A	120mV	
	-5V	0.0~2.0A	80mV	

100W Triple Output Standard Series

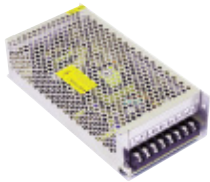


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-T-A	5V	2.0~12.0A	100mV	74%
	+12V	0.0~2.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF100W-T-B	5V	2.0~10.0A	100mV	75%
	+15V	0.0~2.0A	120mV	
	-15V	0.0~1.0A	120mV	
HF100W-T-D	5V	1.0~6.0A	100mV	76%
	12V	0.0~2.0A	120mV	
	24V	0.0~2.0A	150mV	

150W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F615 199 × 98 × 50(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
	V	I		
HF150W-T-A	24V	0.5~4.0A	150mV	78%
	12V	0.0~3.0A	120mV	
	5V	0.0~3.0A	100mV	
HF150W-T-B	24V	1.0~5.0A	150mV	85%
	+12V	0.0~1.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF150W-T-L	5V	1.0~6.0A	100mV	74%
	12V	0.1~4.0A	120mV	
	24V	0.0~2.5A	150mV	

300W Triple Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 × 124 × 65(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 60A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, current limiting, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design refer to GB4943, UL60950, EN60950
 Cooling method fan

Model	DC Output		R&N	Efficiency
	V	I		
HF300W-T-A	24V	2.0~11.0A	150mV	82%
	12V	0.0~2.0A	150mV	
	12V	0.0~1.0A	150mV	
HF300W-T-B	27V	2.0~10.0A	200mV	83%
	12V	0.0~3.0A	150mV	
	5V	0.0~2.0A	120mV	
HF300W-T-H	24V	2.0~10.0A	150mV	82%
	12V	0.0~3.0A	150mV	
	5V	0.0~2.0A	120mV	

20W Quad. Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3, V_4: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
	V	I		
HF20W-Q-A	5V	0.6~3.0A	80mV	73%
	12V	0~0.15A	120mV	
	12V	0~0.15A	120mV	
	12V	0~0.15A	120mV	

35W Quad. Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3, V_4: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
	V	I		
HF35W-Q-A	5V	0.5~3.0A	80mV	65%
	12V	0.0~0.5A	120mV	
	-12V	0.0~0.5A	120mV	
	24V	0.0~0.35A	150mV	
HF35W-Q-B	5V	0.4~2.0A	80mV	65%
	12V	0.0~0.35A	120mV	
	15V	0.0~0.5A	120mV	
	-15V	0.0~0.5A	120mV	
HF35W-Q-C	5V	0.4~2.0A	80mV	61%
	5V	0.0~1.0A	80mV	
	12V	0.0~0.5A	120mV	
	-12V	0.0~0.35A	120mV	

For dual and triple output unit, it shows the output current range (min. ~ max.) of each output. But the total power shall not exceed the rated power.



55W Quad. Output Standard Series

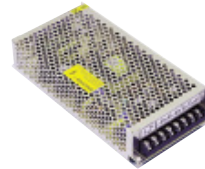


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3, V_4: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF55W-Q-A	5V	1.5~7.0A	80mV	74%
	-5V	0.0~0.5A	80mV	
	12V	0.0~1.0A	120mV	
	-12V	0.0~0.5A	120mV	
HF55W-Q-B	5V	0.5~4.0A	80mV	72%
	24V	0.0~1.0A	150mV	
	12V	0.0~0.7A	120mV	
	-12V	0.0~0.7A	120mV	
HF55W-Q-C	5V	0.5~3.0A	80mV	70%
	24V	0.0~1.0A	150mV	
	15V	0.0~0.5A	120mV	
	-15V	0.0~0.5A	120mV	

150W Quad. Output Standard Series

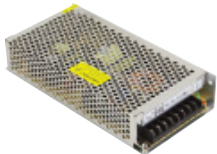


- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F615 199 × 98 × 50(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3, V_4: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~130%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF150W-Q-A	36V	0.5~2.5A	150mV	81%
	-24V	0.1~0.5A	150mV	
	17V	0.2~1.0A	150mV	
	5V	0.0~1.0A	100mV	
HF150W-Q-B	5V	1.5~8.0A	100mV	76%
	24V	0.5~2.0A	150mV	
	12V	0.0~1.5A	120mV	
	-12V	0.0~1.5A	120mV	
HF150W-Q-C	5V	0.4~2.0A	100mV	77%
	24V	0.5~2.0A	150mV	
	15V	0.0~1.5A	120mV	
	-15V	0.0~1.0A	120mV	

100W Quad. Output Standard Series



- High reliability, low cost
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 × 98 × 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3, V_4: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-Q-A	5V	1.0~5.0A	100mV	70%
	24V	0.5~2.0A	150mV	
	15V	0.0~1.0A	120mV	
	-15V	0.0~0.5A	120mV	
HF100W-Q-B	5V	1.0~6.0A	100mV	70%
	24V	0.5~2.0A	150mV	
	12V	0.0~1.0A	120mV	
	-12V	0.0~0.5A	120mV	

500W Quad. Output Standard Series



- AC input range selected by switch
- Applicable to laser printing machine
- Forced air cooling by built-in fan
- 4 outputs common grounded
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F650F 240 × 124 × 65(mm)

AC input voltage range 95~132/ 170~264VAC selected by switch
 Inrush current cold start, 30A/115V, 60A/230V
 Input frequency 47~63Hz
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3, V_4: \leq \pm 3\%$
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method fan

Model	DC Output		R&N	Efficiency
HF500W-QV-A	24V	0.0~15.0A	200mV	81%
	15V	0.2~5.0A	150mV	
	-15V	0.2~5.0A	150mV	
	5V	0.0~5.0A	150mV	

We were honoured to offer power supplies for Beijing Olympic Games, 60th National anniversary ceremony and Shanghai Expo2010.



25W Single Output M1 Series



- Downsized design, 27mm height
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6025 120 × 75 × 27(mm)



AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Packing 0.23kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF25W-SML-5	5V 5.0A	0.5%	80mV	76%
HF25W-SML-12	12V 2.1A	0.5%	120mV	82%
HF25W-SML-24	24V 1.1A	0.5%	150mV	80%
HF25W-SML-48	48V 0.5A	0.5%	150mV	80%

* 3~48VDC output all available.

40W Single Output M1 Series



- Compact size, high reliability
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F604M 120.6 × 63.5 × 38.1(mm)



AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Packing 0.27kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF40W-SML-5	5V 8.0A	1.0%	80mV	78%
HF40W-SML-12	12V 3.3A	0.5%	120mV	84%
HF40W-SML-15	15V 2.7A	0.5%	120mV	84%
HF40W-SML-24	24V 1.8A	0.5%	150mV	86%
HF40W-SML-48	48V 0.8A	0.5%	150mV	87%

* 3~48VDC output all available.

30W 1~3 Output M1 Series

- Compact size design
- High reliability
- Built-in EMI filter
- 5 years limited warranty

- Top brand components for key parts
- Protections: overload/ short circuit
- F602 111 × 78 × 36(mm)



HF30W-SM



HF30W-DM, TM

AC input voltage range 170~264VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range single output: $\pm 10\%$, multi-output: $V_1: \pm 5\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF30W-SM-5	5V 6.0A	0.5%	80mV	76%
HF30W-SM-12	12V 3.0A	0.5%	120mV	83%
HF30W-SM-15	15V 2.4A	0.5%	120mV	83%
HF30W-SM-24	24V 1.5A	0.5%	150mV	84%
HF30W-SM-48	48V 0.7A	0.5%	150mV	86%

* 3~48VDC output all available.

Dual Output

Model	DC Output	R&N	Efficiency
HF30W-DM-C	12V 0.5~2.5A	120mV	76%
	-12V 0.0~1.0A	120mV	

Triple Output

Model	DC Output	R&N	Efficiency
HF30W-TM-A	5V 0.5~3.0A	80mV	80%
	+12V 0.0~0.8A	120mV	
	-12V 0.0~0.7A	120mV	
HF30W-TM-B	5V 0.4~2.0A	80mV	81%
	+15V 0.0~0.5A	120mV	
	-15V 0.0~0.5A	120mV	

The products are designed according to international safety and EMC standards.



Reliable Products & Best Services
 We have full confidence to be your trustworthy power partner.



50W 1~3 Output M1 Series

- Compact size design
- High reliability
- Built-in EMI filter
- 5 years limited warranty
- Top brand components for key parts
- Protections: overload/ short circuit
- F603 129 × 98 × 40(mm)



HF50W-SM



HF50W-DM, TM

AC input voltage range 170~264VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current < 0.7mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Voltage tolerance $V_1: \leq \pm 1\%, V_2, V_3: \leq \pm 3\%$ (with regulators);
 $\leq \pm 10\%$ (without)
 Output voltage adjust range single output: $\pm 10\%$, multi-output: $V_1: \pm 5\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method convection

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SM-5	5V 10.0A	0.5%	80mV	76%
HF50W-SM-12	12V 4.2A	0.5%	120mV	81%
HF50W-SM-15	15V 3.4A	0.5%	120mV	82%
HF50W-SM-24	24V 2.1A	0.5%	150mV	83%
HF50W-SM-48	48V 1.0A	0.5%	150mV	84%

* 3~48VDC output all available.

Dual Output

Model	DC Output	R&N	Efficiency
HF50W-DM-B	5V 0.5~4.0A	80mV	81%
	24V 0.2~1.4A	150mV	

Triple Output

Model	DC Output	R&N	Efficiency
HF50W-TM-B	5V 0.5~4.0A	80mV	79%
	+15V 0.2~1.0A	120mV	
	-15V 0.2~1.0A	120mV	

60W Single Output M1 Series



CE

- Downsized design, 30mm height
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6060 145 × 87 × 30(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Packing 0.32kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF60W-SML-5	5V 10.0A	0.5%	80mV	74%
HF60W-SML-12	12V 5.0A	0.5%	120mV	82%
HF60W-SML-15	15V 4.0A	0.5%	120mV	83%
HF60W-SML-24	24V 2.5A	0.5%	150mV	84%
HF60W-SML-48	48V 1.2A	0.5%	150mV	85%

* 5~48VDC output all available.

500W~600W Single Output M1 Series



- Compact size, high reliability
- Built-in fan speed control
- Built-in EMI filter
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 × 124 × 65(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 60A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~130%, current limiting, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method fan
 Packing 1.32kg/pcs, 16pcs/CTN

Model	DC Output	Load regul.	R&N	Efficiency
HF500W-SM-5	5V 80A	1.0%	120mV	80%
HF500W-SM-12	12V 42A	0.5%	150mV	84%
HF500W-SM-24	24V 21A	0.5%	150mV	85%
HF500W-SM-48	48V 10A	0.5%	240mV	86%
HF600W-SM-12	12V 50A	0.5%	150mV	82%
HF600W-SM-24	24V 25A	0.5%	150mV	86%
HF600W-SM-48	48V 13A	0.5%	240mV	85%



ISO9001 Certificate / 证书 Trademark License / 证书 ROHS Certificate / 证书

600W Single Output M1 Series



- Compact size, high reliability
- AC input range selected by switch
- Forced air cooling by built in fan
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F660SF 246 × 127 × 64(mm)

AC input voltage range 90~132/ 180~264VAC selected by switch
 Input frequency 47~63Hz
 Inrush current cold start, 30A/115V, 60A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, shut off, re-power on to recover
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classA
 Cooling method fan
 Packing 2.12kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF600W-SMF-5	5V	100A	0.5%	120mV	79%
HF600W-SMF-12	12V	50A	0.5%	150mV	84%
HF600W-SMF-15	15V	40A	0.5%	150mV	85%
HF600W-SMF-24	24V	25A	0.5%	150mV	86%
HF600W-SMF-27	27V	22.2A	0.5%	200mV	86%
HF600W-SMF-48	48V	12.5A	0.5%	240mV	87%

* 3~48VDC output all available.

1000W Single Output M1 Series



- Compact size, high reliability
- Built-in fan speed control
- Built-in EMI filter
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F650D 253 × 160 × 69(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 60A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~130%, current limiting, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards design meet GB4943, UL60950, EN60950
 Cooling method fan
 Weight 2.86kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF1000W-SM-12	12V	84A	1.0%	150mV	84%
HF1000W-SM-24	24V	42A	0.5%	150mV	86%
HF1000W-SM-28	28V	35A	0.5%	200mV	87%
HF1000W-SM-48	48V	21A	0.5%	240mV	88%

* 12~48VDC output all available.

20W Battery Charging Power Supply



CE

- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range V1: $\pm 5\%$ of rated output voltage
 V2: unadjustable
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Packing 0.27kg/pcs, 60pcs/CTN

Model	DC Output		R&N	Efficiency
HF20W-SB-12	12V	1.5A	120mV	71%
	13.8V	0.5A(Charger)		
HF20W-SB-24	24V	0.7A	150mV	68%
	27.1V	0.2A(Charger)		

40W Battery Charging Power Supply



CE

- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range V1: $\pm 5\%$ of rated output voltage
 V2: unadjustable
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Packing 0.39kg/pcs, 42pcs/CTN

Model	DC Output		R&N	Efficiency
HF40W-SB-13.8	13.8V	2.9A	120mV	78%
	13.4V	0.23A(Charger)		
HF40W-SB-27.6	27.6V	1.4A	150mV	76%
	26.5V	0.16A(Charger)		

55W Battery Charging Power Supply



C€

- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	$\leq \pm 0.5\%$
Output voltage adjust range	V ₁ : $\pm 5\%$ of rated output voltage V ₂ : unadjustable
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	GB4943, UL60950, EN60950
EMC standards.....	GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Packing	0.46kg/pcs, 30pcs/CTN

Model	DC Output		R&N	Efficiency
HF55W-SB-13.8	13.8V	4.0A	120mV	77%
	13.4V	0.23A(Charger)		
HF55W-SB-27.6	27.6V	2.0A	150mV	78%
	26.5V	0.16A(Charger)		

55W Dual Output for Battery Charging



C€

- High reliability, low cost
- To charge lead acid battery
- Auto switch when power off (UPS function)
- Charging current limited
- Battery low protection
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

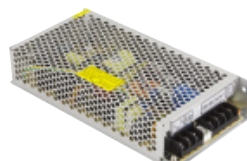
AC input voltage range.....	170~264VAC (210~370VDC)
Input frequency.....	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load).....	$\leq \pm 0.5\%$
Output voltage adjust range	V _i : $\pm 5\%$ of rated output voltage V ₂ : unadjustable
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design meet GB4943, UL60950, EN60950
Cooling method	convection
Packing.....	0.46kg/pcs, 30pcs/CTN

Model	DC Output		R&N	Efficiency
HF55W-D-U	12.8V	4.0A	120mV	77%
	13.8V	0.2A(Charger)		

Our products are widely used in the field of industrial control, telecom, LED display & lighting of buildings, elevator, laser equipment, safety control, etc.



100W Battery Charging Power Supply



CE

- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

AC input voltage range	85~132/ 170~264VAC selected by switch
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	V ₁ : ± 5% of rated output voltage V ₂ : unadjustable
Output overload protection	105~130%, shut off, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	GB4943, UL60950, EN60950
EMC standards	GB9254, EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Packing	0.64kg/pcs, 28pcs/CTN

Model	DC Output		R&N	Efficiency
HF100W-SB-13.8	13.8V	6.0A	120mV	79%
	13.3V	0.5A(Charger)		
HF100W-SB-27.6	27.6V	3.0A	150mV	78%
	27.1V	0.5A(Charger)		

155W Battery Charging Power Supply



C€

- To charge lead acid battery
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Charging current limited
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615 199 x 98 x 50(mm)

AC input voltage range	85~132/ 170~264VAC selected by switch
Input frequency.....	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current.....	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	V ₁ : ± 5% of rated output voltage V ₂ : unadjustable
Output overload protection	105~130%, shut off, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	meet GB4943, UL60950, EN60950
EMC standards.....	meet GB9254, EN55022 classB EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Packing.....	0.74ka/pcs, 20pcs/CTN

Model	DC Output		R&N	Efficiency
HF155W-SB-13.8	13.8V	11.5A	120mV	82%
	13.3V	0.5A(Charger)		
HF155W-SB-27.6	27.6V	5.5A	150mV	85%
	27.1V	0.5A(Charger)		

15W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- DC OK signal output
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6015DRA 35 × 73.5 × 63.4(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection clamping by zenor diode
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet UL508, UL60950, EN60950
 EMC standards meet EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Connection 3P/ 7.5mm pitch, plug-in terminal block
 3P/ 5.0mm pitch, clip terminal block
 Weight 0.17kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF15W-SDR-12	12V 1.25A	0.5%	120mV	82%
HF15W-SDR-15	15V 1.0A	0.5%	120mV	82%
HF15W-SDR-24	24V 0.63A	0.5%	150mV	82%
HF15W-SDR-48	48V 0.3A	0.5%	150mV	83%

50W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- DC OK signal output
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605DR 45 × 89.2 × 75.2(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet UL508, UL60950/ EN60950 approved
 EMC standards GB9254, EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Connection 3P/ 7.5mm pitch
 5P/ 5.0mm pitch, plug-in terminal block
 Weight 0.31kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SDR-12	12V 4.2A	0.5%	120mV	80%
HF50W-SDR-13.8	13.8V 3.6A	0.5%	120mV	80%
HF50W-SDR-24	24V 2.1A	0.5%	150mV	80%
HF50W-SDR-48	48V 1.0A	0.5%	150mV	86%

30W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- DC OK signal output
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603DRA 35 × 89.2 × 75.2(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet UL508, UL60950, EN60950
 EMC standards meet EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Connection 3P/ 7.5mm pitch
 3P/ 5.0mm pitch, clip terminal block
 Weight 0.25kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF30W-SDR-12	12V 2.5A	0.5%	120mV	81%
HF30W-SDR-15	15V 2.0A	0.5%	120mV	82%
HF30W-SDR-24	24V 1.5A	0.5%	150mV	83%
HF30W-SDR-48	48V 0.63A	0.5%	150mV	86%

75W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F606DR 45 × 101.2 × 90.2(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current < 1mA/ 230VAC
 Line regulation (full load) ≤ ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20℃~+50℃
 Safety standards meet UL508, UL60950, EN60950
 EMC standards meet EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection
 Connection 3P/ 7.5mm pitch
 4P/ 5.0mm pitch, plug-in terminal block
 Weight 0.42kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF75W-SDR-12	12V 6.3A	0.5%	120mV	83%
HF75W-SDR-24	24V 3.2A	0.5%	150mV	86%
HF75W-SDR-48	48V 1.6A	0.5%	150mV	87%

120W Single Output DIN Rail Series



- AC input range selected by switch
- High reliability, low cost
- Installed on DIN rail TS35/ 7.5 or 15
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F612DRB 45.4 × 99.5 × 114(mm)

AC input voltage range85~132/ 170~264VAC selected by switch
 Input frequency47~63Hz
 Inrush currentcold start, 20A/115V, 40A/230V
 Input leakage current< 1mA/ 230VAC
 Line regulation (full load)≤ ± 0.5%
 Output voltage adjust range± 10%
 Output overload protection105~150%, hiccup mode, auto recovery
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltageI/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time50ms@full load (typical)
 Hold up time20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standardsmeet UL508, UL60950, EN60950
 EMC standardsmeet EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling methodconvection
 Connection3P/ 7.5mm pitch
 4P/ 5.0mm pitch, plug-in terminal block
 Weight0.54kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF120W-SFDR-12	12V	10.0A	0.5%	120mV	83%
HF120W-SFDR-24	24V	5.0A	0.5%	150mV	86%
HF120W-SFDR-48	48V	2.5A	0.5%	150mV	87%

150W Single Output DIN Rail Series



- AC input range selected by jumper
- Installed on DIN rail TS35/ 7.5 or 15
- Approvals: UL508 listed, UL/ CUL/ CE
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615DRA 108.4 × 74.2 × 109(mm)

AC input voltage range85~132/ 170~264VAC selected by jumper
 Input frequency47~63Hz
 Inrush currentcold start, 40A/230V
 Input leakage current< 1mA/ 230VAC
 Line regulation (full load)≤ ± 0.5%
 Output voltage adjust range± 10%
 Output overload protection105~150%, delay shutdown, re-power on to recover
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltageI/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standardsUL508, UL60950, EN60950 approved
 EMC standardsmeet EN55022 classB
 EN61000-4-2,3,4,5,6,8,11
 Cooling methodconvection
 Connection3P/ 6.35mm pitch
 4P/ 6.35mm pitch, screw terminal block
 Weight0.67kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SDR-12	12V	12.5A	0.5%	120mV	83%
HF150W-SDR-13.8	13.8V	11.0A	0.5%	120mV	83%
HF150W-SDR-15	15V	10.0A	0.5%	120mV	83%
HF150W-SDR-24	24V	6.3A	0.5%	150mV	84%
HF150W-SDR-48	48V	3.1A	0.5%	150mV	85%

120W Single Output DIN Rail - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Installed on DIN rail TS35/ 7.5 or 15
- OCP indication
- High reliability, compact design
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F612DR 50 × 107 × 120.2(mm)

AC input voltage range85~264VAC (120~370VDC)
 Input frequency47~63Hz
 Inrush currentcold start, 20A/115V, 40A/230V
 Input leakage current< 1mA/ 230VAC
 Line regulation (full load)≤ ± 0.5%
 Output voltage adjust range± 10%
 Output overload protection105~130%, delay shutdown, re-power on to recover
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltageI/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time50ms@full load (typical)
 Hold up time20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standardsmeet UL508, UL60950, EN60950
 EMC standardsmeet EN55022 classB, EN55024
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling methodconvection
 Connection3P/ 7.5mm pitch
 4P/ 5.0mm pitch, plug-in terminal block
 Weight0.64kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF120W-SDR-12	12V	10.0A	0.5%	120mV	84%
HF120W-SDR-24	24V	5.0A	0.5%	150mV	85%
HF120W-SDR-48	48V	2.5A	0.5%	150mV	87%

150W Wide Range Single Output DIN Rail



- Wide AC input range up to 528VAC
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615DRB 74.4 × 114.2 × 129.2(mm)

AC input voltage range170~528VAC (single & two phase)
 Input frequency47~63Hz
 Inrush currentcold start, 40A/230V
 Input current< 1.6A/ 230VAC
 Input leakage current< 1mA/ 230VAC
 Line regulation (full load)≤ ± 0.5%
 Output currentrated 6A, peak 10A for 3 seconds
 Output voltage range23~28VDC, rated 24VDC
 Output overload protection105~150%, delay shutdown, re-power on to recover
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltageI/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time50ms@full load (typical)
 Hold up time20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standardsmeet UL508, UL60950, EN60950
 EMC standardsmeet EN55022 classB,
 EN61000-4-2,3,4,5,6,8,11
 Cooling methodconvection
 Connection3P/ 6.35mm pitch
 4P/ 6.35mm pitch, screw terminal block
 Weight0.94kg/pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-WDR-24	24V	6.0A	2.0%	200mV	82%

240W Single Output DIN Rail - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Installed on DIN rail TS35/ 7.5 or 15
- High efficiency up to 90%
- ZCS technology to reduce power dissipation
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F624DRA 63.2 × 114.4 × 125.2(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, delay shutdown, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	meet UL508, UL60950, EN60950
EMC standards	meet EN55022 classB, EN55024 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 7.5mm pitch 6P/ 5.0mm pitch, plug-in terminal block
Weight	0.90kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF240W-SDR-24	24V 10.0A	0.5%	150mV	91%
HF240W-SDR-48	48V 5.0A	0.5%	150mV	92%

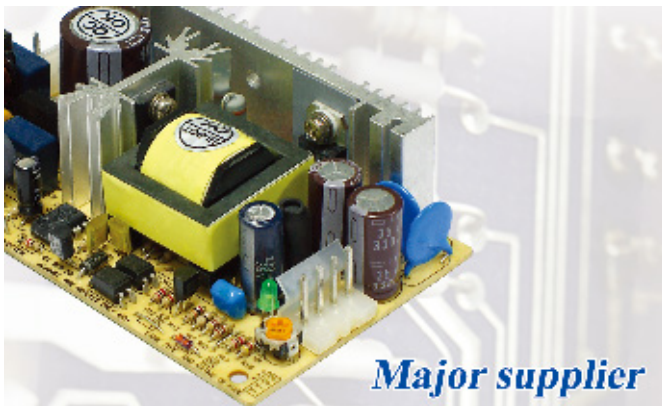
20W LED Driver - Constant Current



- Universal AC input / full range
- Plastic cover, IP67 design
- Constant current design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: over voltage/ short circuit
- 2 years warranty
- 118 × 35 × 26(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 35A/115V, 70A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output overload protection	± 5% current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design refer to EN55015, EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN55024, EN61547
Cooling method	convection
Weight	0.20kg/pcs

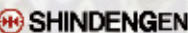
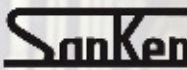
Model	DC Output	Current Tol.	R&N	Efficiency
HF20W-PLD-350	9~48V 350mA	± 5%	200mV	86%
HF20W-PLD-700	9~30V 700mA	± 5%	200mV	84%



Major supplier



ON Semiconductor®



35W LED Driver - Constant Current



- Universal AC input / full range
- Plastic cover, IP67 design
- Constant current design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: over voltage/ short circuit
- 2 years warranty
- 148 × 40 × 30(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 35A/115V, 70A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output overload protection	± 5% current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design refer to EN55015, EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN55024, EN61547
Cooling method	convection
Weight	0.31kg/pcs

Model	DC Output	Current Tol.	R&N	Efficiency
HF35W-PLD-700	9~48V 700mA	± 5%	200mV	88%
HF35W-PLD-1050	9~30V 1050mA	± 5%	200mV	86%
HF35W-PLD-1400	9~24V 1400mA	± 5%	200mV	85%

60W LED Driver - Constant Current



- Universal AC input / full range
- Plastic cover, IP67 design
- Constant current design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: over voltage/ short circuit
- 2 years warranty
- 162.5 × 42.5 × 32(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 35A/115V, 70A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output overload protection	± 5% current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design refer to EN55015, EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN55024, EN61547
Cooling method	convection
Weight	0.41kg/pcs

Model	DC Output	Current Tol.	R&N	Efficiency
HF60W-PLD-1050	9~48V 1050mA	± 5%	200mV	83%
HF60W-PLD-1400	9~42V 1400mA	± 5%	200mV	88%
HF60W-PLD-1750	9~34V 1750mA	± 5%	200mV	86%

35W LED Power Supply - Constant Voltage



- Universal AC input / full range
- Plastic cover, IP67 design
- Constant voltage design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: overload/ over voltage/ short circuit
- 2 years warranty
- 148 × 40 × 30(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 35A/115V, 70A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Load regulation	± 0.5%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	250ms@full load (typical)
Hold up time	50ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design refer to EN55015, EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN55024, EN61547
Cooling method	convection
Weight	0.31kg/pcs

Model	DC Output	Voltage Tol.	R&N	Efficiency
HF35W-PLV-12	12V 3.0A	± 3%	120mV	80%
HF35W-PLV-15	15V 2.4A	± 3%	120mV	80%
HF35W-PLV-24	24V 1.5A	± 3%	150mV	81%
HF35W-PLV-36	36V 1.0A	± 3%	150mV	82%
HF35W-PLV-48	48V 0.75A	± 3%	150mV	83%

20W LED Power Supply - Constant Voltage



- Universal AC input / full range
- Plastic cover, IP67 design
- Constant voltage design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: overload/ over voltage/ short circuit
- 2 years warranty
- 118 × 35 × 26(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 35A/115V, 70A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Load regulation	± 0.5%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	clamping by zenor diode
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	250ms@full load (typical)
Hold up time	50ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design refer to EN55015, EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN55024, EN61547
Cooling method	convection
Weight	0.20kg/pcs

Model	DC Output	Voltage Tol.	R&N	Efficiency
HF20W-PLV-12	12V 1.70A	± 3%	120mV	80%
HF20W-PLV-15	15V 1.33A	± 3%	120mV	81%
HF20W-PLV-24	24V 0.84A	± 3%	150mV	82%
HF20W-PLV-48	48V 0.42A	± 3%	150mV	84%

60W LED Power Supply - Constant Voltage

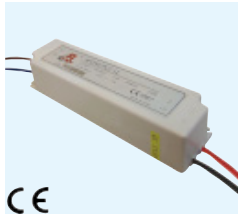


- Universal AC input / full range
- Plastic cover, IP67 design
- Constant voltage design
- Isolation class 2, no PE
- High reliability, low cost
- Protections: overload/ over voltage/ short circuit
- 2 years warranty
- 162.5 × 42.5 × 32(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 35A/115V, 70A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Load regulation	± 0.5%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	250ms@full load (typical)
Hold up time	50ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design refer to UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design refer to EN55015, EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN55024, EN61547
Cooling method	convection
Weight	0.41kg/pcs

Model	DC Output	Voltage Tol.	R&N	Efficiency
HF60W-PLV-12	12V 5.0A	± 3%	150mV	82%
HF60W-PLV-15	15V 4.0A	± 3%	150mV	82%
HF60W-PLV-24	24V 2.5A	± 3%	200mV	83%
HF60W-PLV-48	48V 1.25A	± 3%	200mV	84%

20W LED Driver - with PFC



- Universal AC input / full range
- Plastic cover, IP67 design
- Built-in constant current limiting circuit
- Built-in active PFC, PF>0.9@230VAC
- Suitable for outdoor LED lighting applications, dry/ damp/ wet locations
- Protections: over current/ over voltage/ short circuit
- 2 years warranty
- 148 × 40 × 30(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Load regulation	± 0.5%
Output overload protection	100~110%, current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	80ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design meet UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design meet EN55015, EN55022 Class B EN61000-3-2 Class D, EN61000-3-3 EN55024, EN61547
Cooling method	convection

Model	DC Output	Constant current range	Tolerance	R&N	Efficiency
HF20W-PLC-12	12V 1.66A	8.4~12V	± 4%	2.0V	81%
HF20W-PLC-24	24V 0.84A	16.8~24V	± 4%	2.4V	83%
HF20W-PLC-36	36V 0.56A	25.2~30V	± 4%	3.6V	84%
HF20W-PLC-48	48V 0.42A	33.6~48V	± 4%	3.7V	84%

40W LED Driver - with PFC



- Universal AC input / full range
- Plastic cover, IP67 design
- Built-in constant current limiting circuit
- Built-in active PFC, PF>0.9@230VAC
- Suitable for outdoor LED lighting applications, dry/ damp/ wet locations
- Protections: over current/ over voltage/ short circuit
- 2 years warranty
- 162.5 × 42.5 × 32(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Load regulation	± 0.5%
Output overload protection	100~110%, current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min
Rise time	80ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design meet UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design meet EN55015, EN55022 Class B EN61000-3-2 Class C, EN61000-3-3 EN55024, EN61547
Cooling method	convection

Model	DC Output	Constant current range	Tolerance	R&N	Efficiency
HF40W-PLC-12	12V 3.30A	9~12V	± 4%	2.0V	82%
HF40W-PLC-24	24V 1.67A	18~24V	± 4%	2.7V	84%
HF40W-PLC-36	36V 1.12A	27~36V	± 4%	3.6V	85%
HF40W-PLC-48	48V 0.84A	36~48V	± 4%	4.6V	85%

55W LED Driver - with PFC



- High reliability
- Compact design, plastic cover, IP20
- Constant current limiting design
- Built-in active PFC, PF>0.9@230VAC
- Suitable for indoor LED lighting applications
- Protections: short circuit
- 2 years warranty
- 163 × 45.5 × 31.5(mm)

AC input voltage range	176~265VAC (220~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/230V
Input leakage current	< 0.25mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Load regulation	± 0.5%
Constant current tolerance	± 5%
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min I/P -F/G: 1.88KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design meet UL1310 Class 2, UL8750 EN60950, EN61347
EMC standards	design meet EN55015, EN55022 Class B EN61000-3-2 Class C, EN61000-3-3 EN55024, EN61547
Cooling method	convection

Model	DC Output	No-load Voltage	R&N	Efficiency
HF55W-PLC-1500	18~35V 1.5A	max.37V	3.6V	85%
HF55W-PLC-2300	12~24V 2.3A	max.28V	2.4V	83%
HF55W-PLC-1100	24~48V 1.1A	max.55V	3.7V	85%

60W LED Power Supply



- Universal AC input / full range
- IP67 design (IP66 optional)
- Suitable for outdoor or damp locations
- PF>0.92@230VAC (HF60W-SLD only)
- Protections: overload/ over voltage/ short circuit
- 2 years warranty
- 176 × 63 × 42(mm)

AC input voltage range	90~264VAC (127~370VDC)
Inrush current	cold start, 30A/115V, 60A/230V
Input leakage current	< 1mA/ 230VAC
Output overload protection	105~130%, hiccup mode, auto recovery
Output over voltage protection	115~150%, hiccup mode, auto recovery
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P:3.0KVAC/1min; I/P-F/G:1.5KVAC/1min O/P-F/G:0.5KVAC/1min
Rise, Hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	UL8750 approved
EMC standards	design refer to EN55022 Class B EN61000-3-2 Class A, EN61000-3-3 EN61000-4-2,3,4,5,6,8,11, EN61547
Cooling method	convection
Weight	0.85kg (SLD, IP67), 0.55kg (ELD, IP66)

Model (with PFC)	DC Output	Load regul.	R&N	Efficiency
HF60W-SLD-12	12V 5.0A	2.0%	300mV	81%
HF60W-SLD-24	24V 2.5A	2.0%	300mV	83%

Model (without PFC)	DC Output	Load regul.	R&N	Efficiency
HF60W-ELD-12	12V 5.0A	2.0%	200mV	82%
HF60W-ELD-24	24V 2.5A	2.0%	200mV	83%

100W LED Power Supply - with PFC



- Universal AC input (up to 295VAC)
- IP66 design (IP67 optional)
- Suitable for outdoor or damp locations
- PF>0.98@115VAC; PF>0.94@230VAC
- Protections: overload/ over voltage/ over temperature/ short circuit
- 2 years warranty
- 194 × 63 × 42(mm)

AC input voltage range	90~295VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 30A/115V, 60A/230V
Input leakage current	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	95~108%, current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.75KVAC/1min I/P -F/G: 1.88KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design meet UL8750, UL60950 EN60950, EN61347
EMC standards	design meet EN55015, EN55022 Class B EN61000-3-2 Class C, EN61000-3-3 EN61000-4-2,3,4,5,6,8,11, EN61547
Cooling method	convection

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-CLD-20	20V 4.8A	2.0%	2.0V	86%
HF100W-CLD-24	24V 4.0A	2.0%	2.7V	87%
HF100W-CLD-48	48V 2.0A	2.0%	4.6V	88%
HF100W-CLD-54	54V 1.77A	2.0%	5.0V	88%

150W Single Output Waterproof Series



- High reliability
- IP67 design, fully capsuled
- Suitable for wet or damp locations
- Designed for outdoor or indoor applications
- Protections: overload/ over voltage/ short circuit
- 2 years warranty
- 196 × 95 × 48(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, current limiting
Output over voltage protection	115~150%, shut off, re-power on to recover
Output over temp protection	power derated automatically when over temperature
Short circuit protection	no auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise, Hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
EMC standards	design refer to GB9254, EN55022 classA
Cooling method	convection
Packing	1.46kg/pcs, 14pcs/CTN

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SI-12	12V 12.5A	0.5%	120mV	83%
HF150W-SI-15	15V 10.0A	0.5%	120mV	83%
HF150W-SI-24	24V 6.3A	0.5%	150mV	84%
HF150W-SI-27	27V 5.6A	0.5%	150mV	84%
HF150W-SI-36	36V 4.2A	0.5%	150mV	85%
HF150W-SI-48	48V 3.1A	0.5%	150mV	86%

150W LED Power Supply - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; PF>0.95@230VAC
- Constant voltage design
- IP67 design, fully capsuled
- Suitable for outdoor or damp locations
- Protections: overload/ over voltage/ over temperature/ short circuit
- 2 years warranty
- 196 × 53 × 39(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 30A/115V, 65A/230V
Input leakage current	< 1mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	not adjustable
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+50℃
Safety standards	design meet UL60950
EMC standards	design meet EN55022 Class B EN61000-3-2,3
Cooling method	convection
Weight	1.05kg/pcs

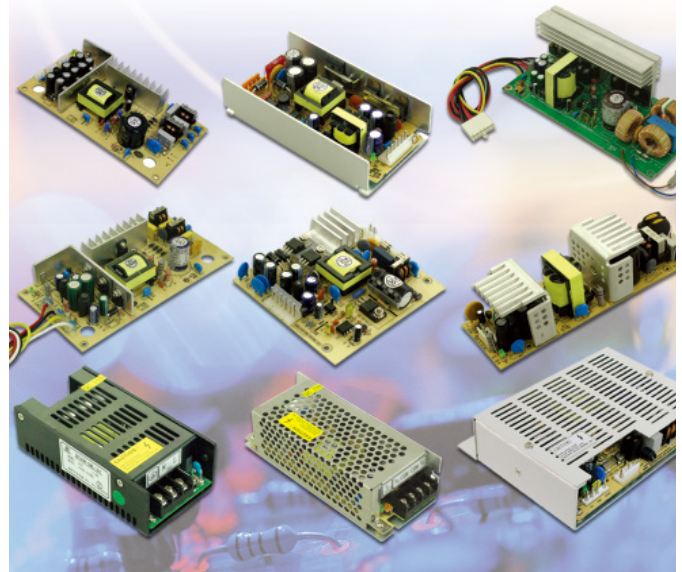
Model	DC Output	Load regul.	R&N	Efficiency
HF150W-CLV-12	12V 12.5A	0.5%	120mV	90%
HF150W-CLV-24	24V 6.3A	0.5%	150mV	90%
HF150W-CLV-36	36V 4.2A	0.5%	150mV	88%
HF150W-CLV-48	48V 3.1A	0.5%	150mV	89%

If you have any question of product application or technical problem, our professional engineers are ready to give assistance.



Custom Design Products

ODM welcome - our strong R&D team are ready to design custom made power supplies to meet your individual requirements.



100W Rain-proof Series



- High reliability, low cost
- Suitable for outdoor or damp locations
- IP21 design
- Built-in EMI filter
- Protections: overload/ short circuit
- 2 years warranty
- F610YS 191.5 × 101.4 × 61.7(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input current	max. 1.5A
Input frequency.....	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current.....	≤ 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	convection
Packing.....	0.46ka/pcs, 20pcs/CTN

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-YS-12	12V	9.0A	0.5%	120mV	81%
HF100W-YS-24	24V	4.2A	0.5%	150mV	82%
HF100W-YS-36	36V	3.0A	0.5%	150mV	83%
HF100W-YS-48	48V	2.2A	0.5%	150mV	84%

200W Rain-proof Series



- High reliability, low cost
- Suitable for outdoor or damp locations
- IP21 design
- Built-in EMI filter
- Protections: overload/ short circuit
- 2 years warranty
- F620YS 220 × 117.6 × 71.5(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input current	max. 2.5A
Input frequency.....	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	convection
Packing.....	0.78ka/pcs, 20pcs/CTN

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-YS-12	12V	16.7A	0.5%	120mV	84%
HF200W-YS-24	24V	8.3A	0.5%	150mV	85%
HF200W-YS-36	36V	5.6A	0.5%	150mV	85%
HF200W-YS-48	48V	4.16A	0.5%	150mV	86%

350W Rain-proof Series



- High reliability, low cost
- Suitable for outdoor or damp locations
- IP21 design
- Built-in EMI filter
- Protections: overload/ short circuit/ over temperature
- 2 years warranty
- F640YS 236.5 × 138.4 × 67.5(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input current	max. 4.0A
Input frequency.....	47~63Hz
Inrush current	cold start, 60A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load).....	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, shut off, re-power on to recover
Short circuit protection	shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	fan
Packing.....	1.05ka/pcs. 16pcs/CTN

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-YS-12	12V	29.0A	0.5%	120mV	82%
HF350W-YS-24	24V	14.6A	0.5%	150mV	84%
HF350W-YS-36	36V	10.0A	0.5%	200mV	85%
HF350W-YS-48	48V	7.3A	0.5%	240mV	86%

400W Rain-proof Series



- High reliability, low cost
- Suitable for outdoor or damp locations
- IP21 design
- Built-in EMI filter
- Protections: overload/ short circuit/ over temperature
- 2 years warranty
- F640YS 236.5 × 138.4 × 67.5(mm)

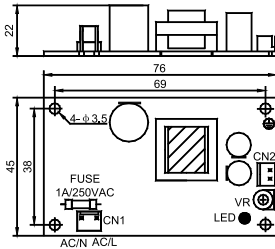
AC input voltage range.....	170~264VAC (210~370VDC)
Input current	max. 5.0A
Input frequency.....	47~63Hz
Inrush current	cold start, 60A/230V
Input leakage current.....	< 0.7mA/ 230VAC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, shut off, re-power on to recover
Short circuit protection.....	shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise time.....	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	fan
Packing.....	1.06kg/pcs, 16pcs/CTN

Model	DC Output		Load regul.	R&N	Efficiency
HF400W-YS-12	12V	33.0A	0.5%	120mV	82%
HF400W-YS-24	24V	17.0A	0.5%	150mV	84%
HF400W-YS-36	36V	13.0A	0.5%	200mV	85%
HF400W-YS-48	48V	8.3A	0.5%	240mV	86%

5W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 76 x 45 x 22(mm)

- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



CE

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Output voltage adjust range $\pm 10\%$
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection clamping by zenor diode
 Over temp. protection IC, Tj: 135°C, power shutdown
 Withstand voltage I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 2P/ 5.08mm, 2P/ 2.54mm pitch
 Weight 0.05kg/pcs

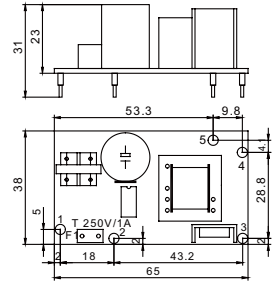
Model	DC Output	Load regul.	R&N	Efficiency
HF5W-SPL-5	5V 1.0A	0.5%	80mV	69%
HF5W-SPL-12	12V 0.4A	0.5%	120mV	74%
HF5W-SPL-24	24V 0.2A	0.5%	150mV	75%
HF5W-SPL-48	48V 0.1A	0.5%	150mV	80%

* 3~48VDC output all available.

15W Open Frame Series - On Board Type

- Assemble on the main PCB of the system
- Universal AC input / full range
- Miniature PCB structure
- 65 x 38 x 31(mm)

- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



CE

AC input voltage range 90~264VAC (127~370VDC)
 Input leakage current < 0.7mA/ 230VAC
 Output voltage adjustment not adjustable
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection clamping by zenor diode
 Over temp. protection IC, Tj: 135°C, power shutdown
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 Rise, Hold up time 100ms, 5ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA, EN61000
 Cooling method convection
 Weight 0.06kg/pcs

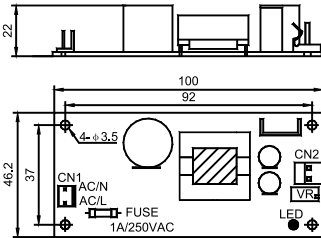
Model	DC Output	Load regul.	R&N	Efficiency
HF15W-SPM-5	5V 3.00A	$\pm 3\%$	80mV	80%
HF15W-SPM-12	12V 1.25A	$\pm 3\%$	120mV	82%
HF15W-SPM-15	15V 1.00A	$\pm 3\%$	120mV	83%
HF15W-SPM-24	24V 0.63A	$\pm 3\%$	150mV	83%

* 3.3~48VDC output all available.

15W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Approvals: UL/CUL/CE
- 100 x 46.2 x 22(mm)

- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



UL CE

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection clamping by zenor diode
 Over temp. protection IC, Tj: 135°C, power shutdown
 Withstand voltage I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN61000
 Connection 2P/ 5.08mm, 2P/ 3.96mm pitch
 Weight 0.09kg/pcs

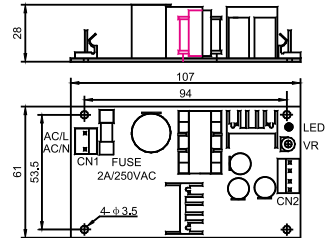
Model	DC Output	Load regul.	R&N	Efficiency
HF15W-SPL-5	5V 3.0A	0.5%	80mV	73%
HF15W-SPL-12	12V 1.3A	0.5%	120mV	82%
HF15W-SPL-24	24V 0.65A	0.5%	150mV	81%
HF15W-SPL-48	48V 0.32A	0.5%	150mV	85%

* 3~48VDC output all available.

25W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 107 x 61 x 28(mm)

- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty



CE

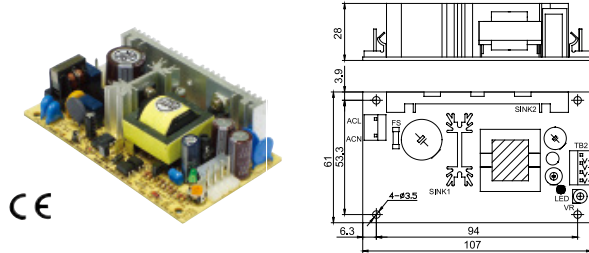
AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Output voltage adjust range $\pm 10\%$
 Output overload protection built-in IC protection, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Over temp. protection IC, Tj: 135°C, power shutdown
 Withstand voltage I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 2P/ 7.92mm, 4P/ 3.96mm pitch
 Weight 0.13kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF25W-SPL-5	5V 5.0A	0.5%	80mV	74%
HF25W-SPL-12	12V 2.1A	0.5%	120mV	81%
HF25W-SPL-24	24V 1.1A	0.5%	150mV	81%
HF25W-SPL-48	48V 0.5A	0.5%	150mV	84%

* 3~48VDC output all available.

35W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 107 x 61 x 28(mm)
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



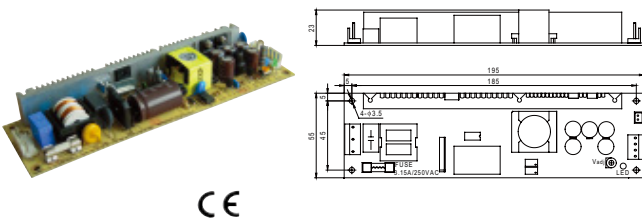
AC input voltage range85~264VAC (120~370VDC)
 Inrush currentcold start, 20A/115V, 40A/230V
 Output voltage adjust range± 10%
 Output overload protection105~150%, hiccup mode, auto recovery
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltage.....I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standards.....meet GB4943, UL60950, EN60950
 EMC standards.....meet GB9254, EN55022 classB, EN61000
 Connection2P/ 7.92mm, 4P/ 3.96mm pitch
 Weight0.16kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF35W-SPL-5	5V 7.0A	0.5%	80mV	76%
HF35W-SPL-12	12V 2.9A	0.5%	120mV	81%
HF35W-SPL-24	24V 1.5A	0.5%	150mV	84%
HF35W-SPL-48	48V 0.7A	0.5%	150mV	83%

* 3~48VDC output all available.

50W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 195 x 55 x 23(mm)
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



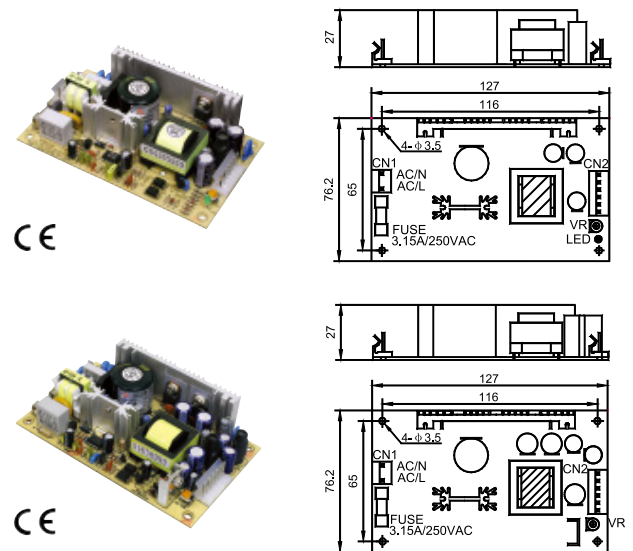
AC input voltage range90~264VAC (127~370VDC)
 Inrush currentcold start, 20A/115V, 40A/230V
 Line regulation (full load)≤ ± 0.5%
 Output voltage adjust range± 10%
 Output overload protection105~150%, hiccup mode, auto recovery
 Output over voltage protection115~150%, hiccup mode, auto recovery
 Withstand voltage.....I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standards.....meet GB4943, UL60950, EN60950
 EMC standards.....meet GB9254, EN55022 classB, EN61000
 Connection3P/ 7.92mm, 4P/ 3.96mm pitch
 Weight0.22kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SPL-5	5V 10.0A	0.5%	80mV	79%
HF50W-SPL-12	12V 4.2A	0.5%	120mV	83%
HF50W-SPL-24	24V 2.1A	0.5%	150mV	85%
HF50W-SPL-48	48V 1.1A	0.5%	150mV	87%

* 3~48VDC output all available.

45W 1~3 Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 127 x 76.2 x 27(mm)
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



AC input voltage range85~264VAC (120~370VDC)
 Inrush currentcold start, 20A/115V, 40A/230V
 Input leakage current.....< 1mA/ 230VAC
 Voltage tolerance.....V₁: ≤ ± 1%, V₂, V₃: ≤ ± 10%
 Output voltage adjust rangesingle output: ± 10%, multi-output: V₁: ± 5%
 Output overload protection105~150%, hiccup mode, auto recovery
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltage.....I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20℃~+50℃
 Safety standards.....meet GB4943, UL60950, EN60950
 EMC standards.....meet GB9254, EN55022 classB, EN61000
 Connection2P/ 7.92mm, 6P/ 3.96mm pitch
 Weight0.19kg/pcs (HF45W-SPL)

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF45W-SPL-5	5V 8.0A	0.5%	80mV	70%
HF45W-SPL-12	12V 3.7A	0.5%	120mV	83%
HF45W-SPL-24	24V 1.9A	0.5%	150mV	85%
HF45W-SPL-48	48V 1.0A	0.5%	150mV	86%

* 3~48VDC output all available.

Dual Output

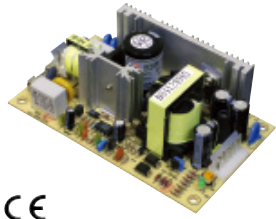
Model	DC Output	R&N	Efficiency
HF45W-DPL-A	5V 0.4~5.0A	80mV	79%
	12V 0.2~2.5A	120mV	
HF45W-DPL-B	5V 0.4~5.0A	80mV	77%
	24V 0.2~1.8A	150mV	

Triple Output

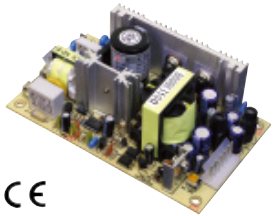
Model	DC Output	R&N	Efficiency
HF45W-TPL-B	5V 0.5~4.0A	80mV	75%
	+12V 0.3~1.5A	120mV	
	-12V 0.1~0.5A	120mV	
HF45W-TPL-C	5V 1.0~5.0A	80mV	75%
	+15V 0.2~1.0A	120mV	
	-15V 0.1~0.35A	120mV	

65W 1~3 Output Open Frame Series

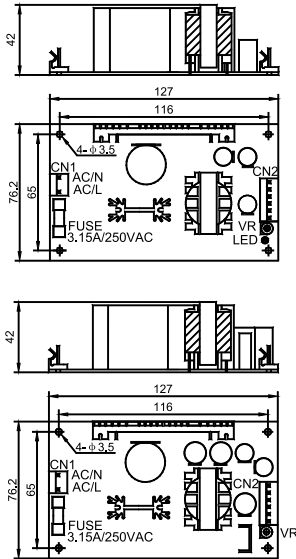
- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 127 x 76.2 x 42(mm)
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty



CE



CE



AC input voltage range85~264VAC (120~370VDC)
 Inrush currentcold start, 20A/115V, 40A/230V
 Input leakage current.....< 1mA/ 230VAC
 Voltage tolerance..... $V_1: \leq \pm 1\%$, $V_2, V_3: \leq \pm 10\%$
 Output voltage adjust rangesingle output: $\pm 10\%$, multi-output: $V_1: \pm 5\%$
 Output overload protection105~150%, hiccup mode, auto recovery
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltage.....I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20°C~+50°C
 Safety standards.....meet GB4943, UL60950, EN60950
 EMC standards.....meet GB9254, EN55022 classB, EN61000
 Connection2P/ 7.92mm, 6P/ 3.96mm pitch
 Weight0.25kg/pcs (HF65W-SPL)

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF65W-SPL-5	5V 10.0A	0.5%	80mV	76%
HF65W-SPL-12	12V 5.2A	0.5%	120mV	85%
HF65W-SPL-24	24V 2.7A	0.5%	150mV	86%
HF65W-SPL-48	48V 1.35A	0.5%	150mV	87%

* 3~48VDC output all available.

Dual Output

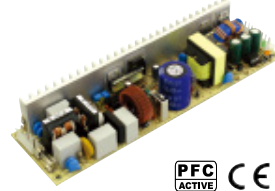
Model	DC Output	R&N	Efficiency
HF65W-DPL-A	5V 0.4~7.0A	80mV	82%
	12V 0.2~3.2A	120mV	
HF65W-DPL-B	5V 0.4~6.0A	80mV	83%
	24V 0.2~2.6A	150mV	

Triple Output

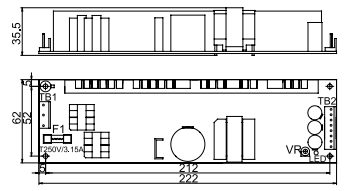
Model	DC Output	R&N	Efficiency
HF65W-TPL-B	5V 0.4~5.0A	80mV	81%
	+12V 0.2~2.5A	120mV	
	-12V 0.1~0.5A	120mV	
HF65W-TPL-C	5V 1.0~6.0A	80mV	81%
	+15V 0.3~1.6A	120mV	
	-15V 0.1~0.7A	120mV	

100W Open Frame Series - with PFC

- Universal AC input / full range
- Protections: overload/ over voltage/ short circuit
- PF>0.98@115VAC; >0.94@230VAC
- 5 years limited warranty
- 222 x 62 x 35.5(mm)



PFC ACTIVE CE



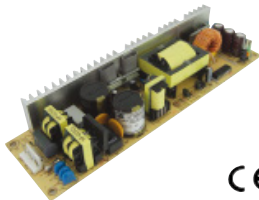
AC input voltage range85~264VAC (120~370VDC)
 Input frequency.....47~63Hz
 Inrush currentcold start, 20A/115V, 40A/230V
 Input leakage current.....< 1mA/ 230VAC
 Output voltage adjust range $\pm 10\%$
 Output overload protection105~130%, current limiting, auto recovery
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltage.....I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20°C~+40°C
 Safety standards.....meet GB4943, UL60950, EN60950
 EMC standards.....meet GB9254, EN55022 classB, EN61000
 Cooling methodconvection
 Connection3P/ 7.92mm, 8P/ 3.96mm pitch
 Weight0.42kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SPC-3.3	3.3V 20.0A	0.5%	100mV	71%
HF100W-SPC-5	5V 20.0A	0.5%	100mV	78%
HF100W-SPC-7.5	7.5V 13.5A	0.5%	100mV	81%
HF100W-SPC-12	12V 8.5A	0.5%	120mV	83%
HF100W-SPC-15	15V 6.7A	0.5%	120mV	84%
HF100W-SPC-24	24V 4.2A	0.5%	150mV	84%
HF100W-SPC-48	48V 2.1A	0.5%	150mV	86%

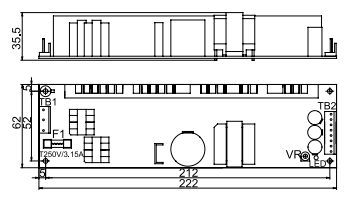
* 3~48VDC output all available.

100W Open Frame Series

- High reliability
- AC input range selected by switch
- Built-in EMI filter
- Free air cooling convection
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- 222 x 62 x 35.5(mm)



CE



AC input voltage range85~132/ 170~264VAC selected by switch
 Input frequency.....40~63Hz
 Inrush currentcold start, 20A/115V, 40A/230V
 Input leakage current.....< 1mA/ 230VAC
 Output voltage adjust range $\pm 10\%$
 Output overload protection105~130%, shut off, re-power on to recover
 Output over voltage protection115~150%, shut off, re-power on to recover
 Withstand voltage.....I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time50ms, 20ms@full load (typical)
 Operating temperature-20°C~+50°C
 Safety standards.....meet GB4943, UL60950, EN60950
 EMC standards.....meet GB9254, EN55022 classB, EN61000
 Cooling methodconvection
 Connection3P/ 7.92mm, 8P/ 3.96mm pitch
 Weight0.41kg/pcs

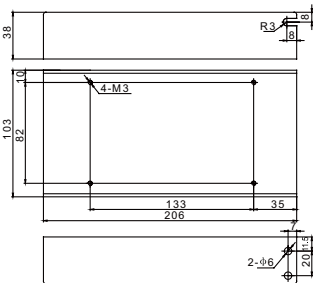
Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SPF-5	5V 20.0A	0.5%	100mV	77%
HF100W-SPF-12	12V 8.5A	0.5%	120mV	81%
HF100W-SPF-15	15V 6.7A	0.5%	120mV	82%
HF100W-SPF-24	24V 4.2A	0.5%	150mV	84%
HF100W-SPF-48	48V 2.1A	0.5%	150mV	85%

* 3~48VDC output all available.

150W U-Bracket Series

- High reliability
- AC input range selected by switch
- Built-in EMI filter
- Free air cooling convection

- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- 206 x 103 x 38(mm)



CE

AC input voltage range	85~132/ 170~264VAC selected by switch
Inrush current	cold start, 20A/115V, 40A/230V
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, shut off, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise, Hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classB, EN61000
Connection	3P, 4P/ 9.5mm pitch, terminal block

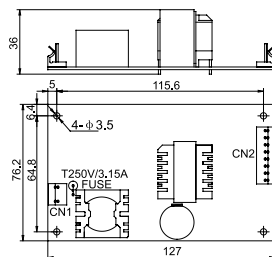
Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SUF-5	5V 30.0A	0.5%	100mV	79%
HF150W-SUF-12	12V 12.5A	0.5%	120mV	85%
HF150W-SUF-15	15V 10.0A	0.5%	120mV	85%
HF150W-SUF-24	24V 6.5A	0.5%	150mV	86%
HF150W-SUF-48	48V 3.1A	0.5%	150mV	86%

* 3~48VDC output all available.

200W Open Frame Series - with PFC

- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- High power density 9.78W/inch³
- High efficiency
- ZVS technology to reduce power dissipation

- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air convection for 150W and 200W with 20.5 CFM forced air
- 5 years limited warranty
- 127 x 76.2 x 36(mm)



PFC ACTIVE CE

AC input voltage range	85~264VAC (120~370VDC)
Inrush current	cold start, 20A/115V, 40A/230V
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Rise, Hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classB, EN61000
Connection	2P/ 7.92mm, 8P/ 3.96mm pitch
Weight	0.38kg/pcs

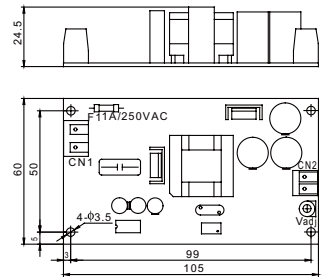
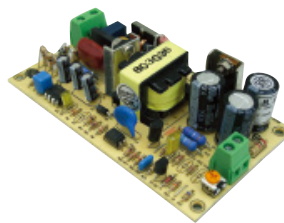
Model	DC Output	Load regul.	R&N	Efficiency
HF200W-SPC-5	5V 36.0A	0.5%	100mV	81%
HF200W-SPC-12	12V 16.6A	0.5%	120mV	85%
HF200W-SPC-24	24V 8.3A	0.5%	150mV	87%
HF200W-SPC-48	48V 4.2A	0.5%	150mV	87%

* 3~48VDC output all available.

25W Open Frame for Traffic Light

- Universal AC input / full range
- PF>0.90@230VAC
- Miniature PCB structure
- 5 years limited warranty

- Protections: over voltage/ short circuit
- Constant output current limiting
- Free air cooling convection
- 105 x 60 x 24.5(mm)

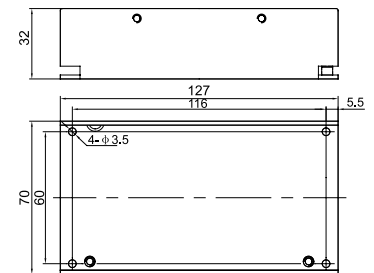


Model no.	HF25W-SPGL-24
AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	< 1mA/ 230VAC
Efficiency	> 80%
Output voltage	24VDC, fixed
Output voltage adjust range	± 10%
Output current	0~1A, constant current limiting
Output current limiting range	100~130%, hiccup mode, auto recovery
Line regulation (full load)	± 2%
Load regulation	± 2%
R&N	4Vp-p
Output over voltage protection	115~150%
Short circuit protection	hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.0KVAC/1min
Set up time	< 200ms
Rise, Hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	design meet GB7000.1
Cooling method	convection
Connection	2P/ 7.5mm pitch 2P/ 5mm pitch, terminal block

50W~60W DC/DC for Vehicle LCD

- Wide DC input range
- High reliability, low cost
- 127 x 70 x 32(mm)

- Protections: overload/ short circuit
- 5 years limited warranty



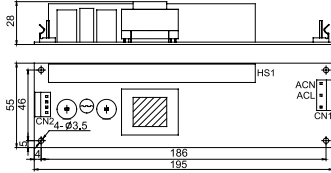
DC input voltage range	24(9~36)VDC, 48(36~72)VDC
Line regulation	± 1%
Output voltage tolerance	± 3%
Output overload protection	115~180% at min. Vin, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min
Rise time	50ms@full load (typical)
Operating temperature	-20℃~+50℃
Safety standards	design refer to LVD
Cooling method	convection
Connection	4P/ 3.96mm pitch 6P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SUD**-5	5V 10.0A	1.0%	80mV	73%
HF50W-SUD**-12	12V 3.7A	1.0%	120mV	83%
HF50W-SUD**-24	24V 2.1A	1.0%	150mV	84%
HF60W-SUD**-5	5V 12.0A	1.0%	80mV	72%
HF60W-SUD**-12	12V 5.0A	1.0%	120mV	81%

**means DC input voltage, such as 24, 48, etc.

60W Single Output Open Frame Series

- High reliability, low cost
- Miniature PCB structure
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- 195 x 55 x 28(mm)



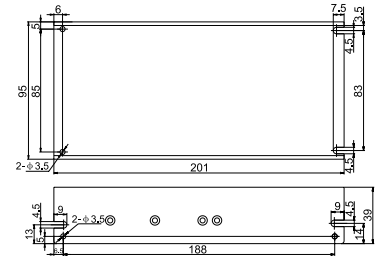
AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design meet GB4943, UL60950, EN60950
 Connection 3P/ 7.92mm, 4P/ 3.96mm pitch
 Weight 0.21kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF60W-SP-12	12V 5.0A	0.5%	120mV	81%
HF60W-SP-15	15V 4.0A	0.5%	120mV	82%
HF60W-SP-24	24V 2.5A	0.5%	150mV	83%
HF60W-SP-48	48V 1.3A	0.5%	150mV	86%

* 12~48VDC output all available.

100W DC/DC U-Bracket Series

- High reliability
- Input over voltage protection
- Input below voltage protection
- 201 x 95 x 39(mm)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty



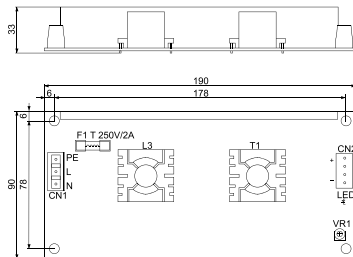
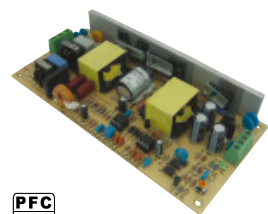
DC input voltage range 12(10~18)VDC, 24(18~36)VDC
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, hiccup mode, auto recovery
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards design refer to LVD
 Cooling method convection
 Connection 4P/ 9.5mm pitch, terminal block
 Weight 0.75kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SUD**5	5V 20.0A	1.0%	100mV	75%
HF100W-SUD**12	12V 9.0A	0.5%	120mV	73%
HF100W-SUD**24	24V 4.5A	0.5%	150mV	76%

**means DC input voltage, such as 12, 24, etc.

85W~120W Open Frame Series - with PFC

- High reliability
- PF>0.92@230VAC
- Free air cooling convection
- 190 x 90 x 33(mm)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty

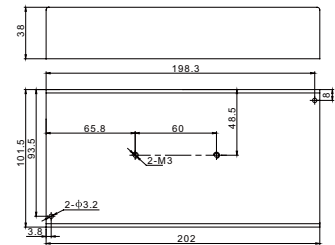


AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Line regulation (full load) $\leq \pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise time 50ms@full load (typical)
 Hold up time 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classA, EN61000
 Cooling method convection
 Connection 3P/ 7.5mm pitch
 4P/ 5.0mm pitch, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF85W-SPC-36	36V 2.4A	0.5%	150mV	82%
HF120W-SPC-36	36V 3.3A	0.5%	150mV	84%

225W U-Bracket Series - with PFC

- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Built-in EMI filter
- Free air convection for 150W and 225W with 18 CFM forced air
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- 202 x 101.5 x 38(mm)



AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~130%, current limiting, auto recovery
 Output over voltage protection 115~150%, shut off, re-power on to recover
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -20°C~+50°C
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 3P, 12P/ 5mm pitch
 Weight 0.80kg/pcs

Model	DC Output	Load regul.	R&N	Efficiency
HF225W-SUC-5	5V 40.0A	1.0%	100mV	76%
HF225W-SUC-12	12V 18.7A	0.5%	120mV	83%
HF225W-SUC-15	15V 15.0A	0.5%	120mV	84%
HF225W-SUC-24	24V 9.4A	0.5%	150mV	86%
HF225W-SUC-48	48V 4.7A	0.5%	150mV	87%

* 3~48VDC output all available.

10W DC/DC Series



- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F601 100 × 58 × 31(mm)

DC input voltage.....	12VDC, 24VDC, 48VDC, 90VDC, 110VDC
Line regulation (full load).....	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$ multi-output: $V_i: \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance.....	> 100M Ω @500VDC
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF10W-SD**-5	5V	2.0A	80mV	± 1%
HF10W-SD**-12	12V	1.0A	120mV	± 1%
HF10W-SD**-24	24V	0.5A	150mV	± 1%
HF10W-DD**-A	5V	0.2~1.8A	80mV	± 1%
	12V	0.1~0.5A	120mV	± 3%
HF10W-DD**-B	5V	0.2~1.8A	80mV	± 1%
	24V	0.05~0.3A	150mV	± 3%

**means DC input voltage, such as 12, 24, 48, 90, 110, etc.

20W DC/DC Series



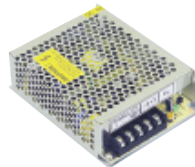
- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 × 78 × 36(mm)

DC input voltage	12VDC, 24VDC, 48VDC, 110VDC
Line regulation (full load)	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$ multi-output: $V_1: \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100M Ω @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF20W-SD**.5	5V	4.0A	80mV	± 1%
HF20W-SD**.12	12V	2.0A	120mV	± 1%
HF20W-SD**.24	24V	1.0A	150mV	± 1%
HF20W-DD**.A	5V	0.4~2.0A	80mV	± 1%
	12V	0.0~1.0A	120mV	± 3%
HF20W-TD**.A	5V	0.4~2.0A	80mV	± 1%
	+12V	0.0~0.5A	120mV	± 3%
	-12V	0.0~0.35A	120mV	± 3%

**means DC input voltage, such as 12, 24, 48, 90, 110, etc.

30W DC/DC Series



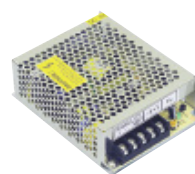
- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

DC input voltage.....	12VDC, 24VDC, 48VDC, 110VDC
Line regulation (full load).....	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$ multi-output: $V_1: \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance.....	$> 100M\Omega @ 500VDC$
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF30W-SD**-12	12V	2.5A	120mV	± 1%
HF30W-SD**-24	24V	1.3A	150mV	± 1%
HF30W-DD**-A	5V	0.5~3.2A	80mV	± 1%
	12V	0.0~2.0A	120mV	± 3%
HF30W-DD**-B	15V	0.2~1.0A	120mV	± 1%
	-15V	0.0~1.0A	120mV	± 3%
	5V	0.5~3.5A	80mV	± 1%
HF30W-TD**-A	+12V	0.1~1.2A	120mV	± 3%
	-12V	0.1~0.8A	120mV	± 10%

**means DC input voltage, such as 12, 24, 48, 110, etc.

40W DC/DC Series



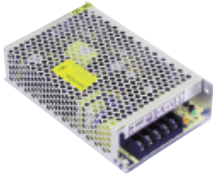
- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 × 98 × 40(mm)

DC input voltage.....	24VDC, 48VDC, 110VDC
Line regulation (full load).....	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$ multi-output: $V_1: \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance.....	> 100M Ω @500VDC
Operating temperature	-20 $^{\circ}$ C~+50 $^{\circ}$ C
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF40W-SD**-5	5V	8.0A	80mV	± 1%
HF40W-SD**-12	12V	3.3A	120mV	± 1%
HF40W-SD**-24	24V	1.6A	150mV	± 1%
HF40W-TD**-A	5V	0.4~2.0A	80mV	± 1%
	+12V	0.0~1.5A	120mV	± 3%
	-12V	0.0~1.0A	120mV	± 10%

** means DC input voltage, such as 24, 48, 110, etc.

50W DC/DC Series



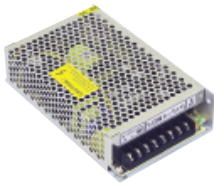
- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

DC input voltage	12VDC, 24VDC, 48VDC, 110VDC
Line regulation (full load)	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$ multi-output: $V_i \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100M Ω @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF50W-SD**-5	5V	10.0A	80mV	± 1%
HF50W-SD**-12	12V	4.2A	120mV	± 1%
HF50W-SD**-24	24V	2.1A	150mV	± 1%
HF50W-DD**-A	5V	1.0~6.0A	80mV	± 1%
	12V	0.0~2.0A	120mV	± 3%
HF50W-DD**-B	15V	0.3~1.7A	120mV	± 1%
	-15V	0.0~1.7A	120mV	± 3%
HF50W-TD**-A	5V	0.5~5.0A	80mV	± 1%
	+12V	0.2~2.0A	120mV	± 3%
	-12V	0.2~1.5A	120mV	± 10%

**means DC input voltage, such as 12, 24, 48, 110, etc.

60W DC/DC Series



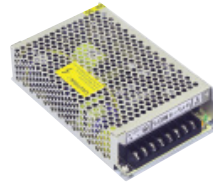
- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)

DC input voltage	12VDC, 24VDC, 48VDC, 110VDC
Line regulation (full load)	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$ multi-output: $V_i: \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100M Ω @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF60W-SD**-5	5V	12.0A	80mV	± 1%
HF60W-SD**-12	12V	5.0A	120mV	± 1%
HF60W-SD**-24	24V	2.5A	150mV	± 1%
HF60W-SD**-48	48V	1.3A	150mV	± 1%
HF60W-DD**-A	12V	0.5~4.0A	120mV	± 1%
	5V	0.0~2.0A	80mV	± 3%

**means DC input voltage, such as 12, 24, 48, 110, etc.

70W DC/DC Series



- High reliability
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 × 98 × 39(mm)
- F608 146 × 81 × 38(mm) (option)

DC input voltage	24VDC, 48VDC, 110VDC
Line regulation (full load)	$\leq \pm 0.5\%$
Output voltage adjust range	single output: $\pm 10\%$, multi-output: $V_i: \pm 5\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	$> 100M \Omega$ @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Output		R&N	Voltage Tol.
HF70W-SD**-12	12V	6.0A	120mV	± 1%
HF70W-SD**-15	15V	4.7A	120mV	± 1%
HF70W-SD**-24	24V	3.0A	150mV	± 1%
HF70W-DD**-A	12V	1.0~5.0A	120mV	± 1%
	5V	0~2.0A	80mV	± 3%
HF70W-TD**-A	5V	1.0~5.0A	120mV	± 1%
	+12V	0.0~2.0A	80mV	± 3%
	-12V	0.0~1.0A	80mV	± 3%

**means DC input voltage, such as 24, 48, 110, etc.

100W~200W DC/DC Series



- High reliability
- Top brand components for key parts
- Electrolytic capacitors all 105°C
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty

DC input voltage	24VDC, 48VDC, 110VDC
Line regulation (full load)	$\leq \pm 0.5\%$
Output voltage adjust range	$\pm 10\%$
Output overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	$> 100M\Omega @500VDC$
Operating temperature	-20℃~+50℃
Safety standards.....	design refer to GB4943, UL60950, EN60950
Cooling method	convection

100W Single Output

- F610 199 × 98 × 39(mm)

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF100W-SD**-5	5V	20.0A	0.5%	100mV	± 1%
HF100W-SD**-12	12V	8.5A	0.5%	120mV	± 1%
HF100W-SD**-24	24V	4.2A	0.5%	150mV	± 1%
HF100W-SD**-48	48V	2.1A	0.5%	150mV	± 1%

150W Single Output

- F615 199 × 98 × 50(mm)

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF150W-SD**-12	12V	12.5A	0.5%	120mV	± 1%
HF150W-SD**-24	24V	6.3A	0.5%	150mV	± 1%
HF150W-SD**-48	48V	3.1A	0.5%	150mV	± 1%

200W Single Output

- F620 200 × 110 × 50(mm)

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF200W-SD**-5	5V	30.0A	0.5%	100mV	± 1%
HF200W-SD**-12	12V	16.7A	0.5%	120mV	± 1%
HF200W-SD**-24	24V	8.4A	0.5%	150mV	± 1%
HF200W-SD**-48	48V	4.2A	0.5%	150mV	± 1%

**means DC input voltage, such as 24, 48, 110, etc.

200W DC/DC Mini-size Series



- 2:1 wide input range
- Top brand components for key parts
- Input over/ below voltage protection
- Input polarity protection
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F620DC 199 × 99 × 50(mm)

Line regulation (full load)	≤ ± 0.5%
Load regulation	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100MΩ @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	convection

Model	DC Input	DC Output	R&N	Efficiency
HF200W-SMD**-12	19~36V	12V 16.7A	120mV	82%
HF200W-SMD**-24	19~36V	24V 8.4A	150mV	85%
HF200W-SMD**-12	36~72V	12V 16.7A	120mV	84%
HF200W-SMD**-24	36~72V	24V 8.4A	150mV	86%
HF200W-SMD**-12	72~144V	12V 16.7A	120mV	82%
HF200W-SMD**-24	72~144V	24V 8.4A	150mV	84%

300W DC/DC Series



- High reliability
- Top brand components for key parts
- Forced air cooling by built-in fan
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630D 215 × 115 × 50(mm)

DC input voltage	24VDC, 48VDC, 110VDC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100MΩ @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	fan

Model	DC Output	Load regul.	R&N	Voltage Tol.
HF300W-SD**-12	12V 25.0A	0.5%	150mV	± 1%
HF300W-SD**-15	15V 20.0A	0.5%	150mV	± 1%
HF300W-SD**-24	24V 12.5A	0.5%	150mV	± 1%
HF300W-SD**-48	48V 6.3A	0.5%	240mV	± 1%

**means DC input voltage, such as 24, 48, 110, etc.

Hengfu is recognized as the leading manufacturer in China of industrial switching power supplies.



We have various advanced production equipment and test instrument to ensure accuracy and efficiency.



350W~500W DC/DC Mini-size Series



- 2:1 wide input range
- Built-in fan speed control
- Built-in remote sense (option)
- Remote ON/OFF control (option)
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630D 215 × 115 × 50(mm)

Line regulation (full load)	≤ ± 0.5%
Load regulation	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, delay shutdown, re-power on to recover
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100MΩ @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	fan

Model	DC Input	DC Output	R&N	Efficiency
HF350W-SMD**-12	19~36V	12V 27.5A	150mV	80%
HF350W-SMD**-24	19~36V	24V 14.6A	150mV	80%
HF350W-SMD**-12	36~72V	12V 27.5A	150mV	81%
HF350W-SMD**-24	36~72V	24V 14.6A	150mV	81%
HF350W-SMD**-12	72~144V	12V 29.2A	150mV	83%
HF350W-SMD**-24	72~144V	24V 14.6A	150mV	87%
HF500W-SMD**-12	19~72V	12V 40.0A	150mV	86%
HF500W-SMD**-24	19~72V	24V 21.0A	150mV	88%
HF500W-SMD**-12	72~144V	12V 40.0A	150mV	87%
HF500W-SMD**-24	72~144V	24V 21.0A	150mV	89%

500W~1000W DC/DC Series



- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Forced air cooling by built-in fan
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F650 250 × 160 × 87(mm)

DC input voltage	48VDC, 110VDC
Line regulation (full load)	≤ ± 0.5%
Output voltage adjust range	± 10%
Output overload protection	105~130%, current limiting, auto recovery
Output over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 1.5KVAC/1min I/P -F/G: 1.5KVAC/1min O/P-F/G: 0.5KVAC/1min
Isolation resistance	> 100MΩ @500VDC
Operating temperature	-20℃~+50℃
Safety standards	design refer to GB4943, UL60950, EN60950
Cooling method	fan

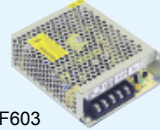
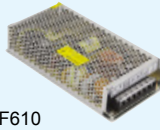
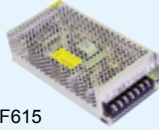
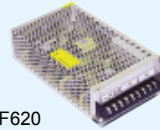
Model	DC Output	Load regul.	R&N	Voltage Tol.
HF500W-SD**-12	12V 42A	0.5%	150mV	± 1%
HF500W-SD**-24	24V 21A	0.5%	150mV	± 1%
HF500W-SD**-48	48V 11A	0.5%	240mV	± 1%
HF600W-SD**-48	48V 13A	0.5%	240mV	± 1%
HF700W-SD**-24	24V 29A	0.5%	150mV	± 1%
HF800W-SD**-24	24V 35A	0.5%	150mV	± 1%
HF800W-SD**-48	48V 17A	0.5%	240mV	± 1%
HF1000W-SD**-24	24V 42A	0.5%	150mV	± 1%
HF1000W-SD**-48	48V 21A	0.5%	240mV	± 1%

**means DC input voltage, such as 48, 110, etc.

40W~400W 1~2 Output Telecom Series

Features:

- Wide AC input range up to 280VAC
- Wide operating temperature
- Applicable to severe working condition
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit/ over temperature (HF300W-ST, HF400W-ST)
- 5 years limited warranty

Product picture						
Model No.	HF40W-ST	HF70W-ST/DT	HF100W-ST/DT	HF150W-ST/DT	HF200W-ST/DT	HF300~400W-ST/DT
Dimension (mm)	129×98×40	160×98×39	199×98×39	199×98×50	200×110×50	241×124×65
Weight & packing	0.36kg, 42pcs/CTN	0.46kg, 30pcs/CTN	0.60kg, 28pcs/CTN	0.68kg, 20pcs/CTN	0.85kg, 20pcs/CTN	1.22kg, 16pcs/CTN
AC input voltage range	160~280VAC (210~370VDC)					
Input frequency	47~63Hz					
Inrush current	cold start, 40A/230VAC					cold start, 60A/230V
Input leakage current	< 0.7mA/ 230VAC					
Line regulation (full load)	≤ ± 0.5%					
Voltage tolerance	V ₁ : ≤ ± 1%, V ₂ : ≤ ± 3%					
Voltage adjust range	single output: ± 10%; dual output: V ₁ : ± 5% of rated output voltage					
Overload protection	105~150%, hiccup mode, auto recovery		105~130%, shut off, re-power on to recover			105~130%, current limiting, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery		115~150%, shut off, re-power on to recover			
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P -F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	50ms@full load (typical)					
Hold up time	20ms@full load (typical)					
Operating temperature	-30℃~+65℃ (refer to the derating curve)					
Safety standards	design meet GB4943, UL60950, EN60950					
Cooling method	convection					fan

40W Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF40W-ST-13.8	13.8V	2.9A	0.5%	120mV	80%
HF40W-ST-27	27V	1.5A	0.5%	150mV	83%
HF40W-ST-48	48V	0.9A	0.5%	150mV	84%

70W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF70W-ST-13.8	13.8V	5.0A	0.5%	120mV	82%
HF70W-ST-27	27V	2.6A	0.5%	150mV	83%
HF70W-ST-48	48V	1.5A	0.5%	150mV	84%
HF70W-DT-B	27V	2.2A	0.5%	150mV	81%
	12V	1.0A	0.5%	120mV	

100W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-ST-13.8	13.8V	7.2A	0.5%	120mV	83%
HF100W-ST-27	27V	3.7A	0.5%	150mV	85%
HF100W-ST-28	28V	3.5A	0.5%	150mV	85%
HF100W-ST-48	48V	2.2A	0.5%	150mV	87%
HF100W-DT-B	27V	3.0A	0.5%	150mV	83%
	12V	2.0A	0.5%	120mV	

150W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-ST-13.8	13.8V	10.9A	0.5%	120mV	85%
HF150W-ST-27	27V	5.6A	0.5%	150mV	87%
HF150W-ST-48	48V	3.1A	0.5%	150mV	89%
HF150W-DT-B	27V	4.0A	0.5%	150mV	79%
	12V	4.0A	0.5%	120mV	
HF150W-DT-E	30V	5.0A	0.5%	150mV	84%
	12V	1.5A	0.5%	120mV	

200W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-ST-13.8	13.8V	14.5A	0.5%	120mV	85%
HF200W-ST-27	27V	8.0A	0.5%	150mV	86%
HF200W-ST-28	28V	8.0A	0.5%	150mV	86%
HF200W-ST-48	48V	4.2A	0.5%	150mV	88%
HF200W-DT-A	27V	6.0A	0.5%	150mV	86%
	9V	3.0A	0.5%	120mV	
HF200W-DT-B	27V	6.0A	0.5%	150mV	83%
	12V	3.0A	0.5%	120mV	

300W Single/ Dual Output

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-ST-27	27V	11.1A	0.5%	200mV	85%
HF300W-ST-48	48V	6.3A	0.5%	240mV	88%
HF300W-DT-B	27V	10.0A	0.5%	200mV	84%
	12V	3.0A	0.5%	120mV	

400W Single/ Dual Output

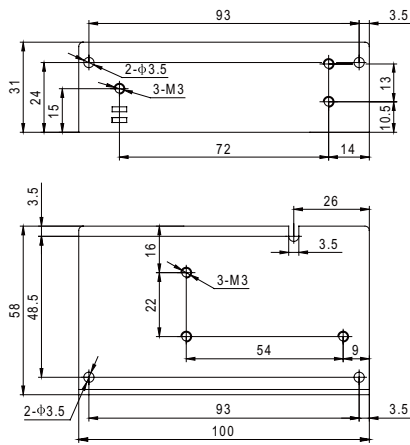
Model	DC Output		Load regul.	R&N	Efficiency
HF400W-ST-27	27V	15.0A	0.5%	200mV	86%
HF400W-ST-48	48V	8.3A	0.5%	240mV	88%
HF400W-DT-B	27V	15.0A	0.5%	200mV	84%
	12V	3.0A	0.5%	120mV	

Our sales team - 15 branch offices and worldwide distributors are ready to offer you professional technical support and prompt service.

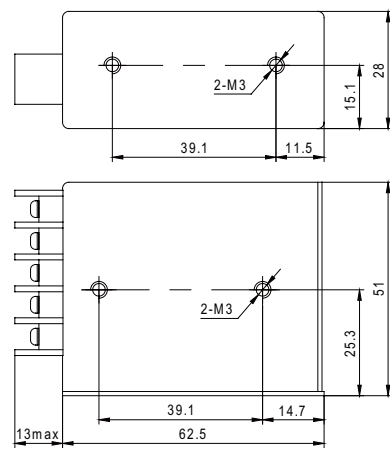


For more details, we sincerely invite you to visit our website: www.hengfu.com.

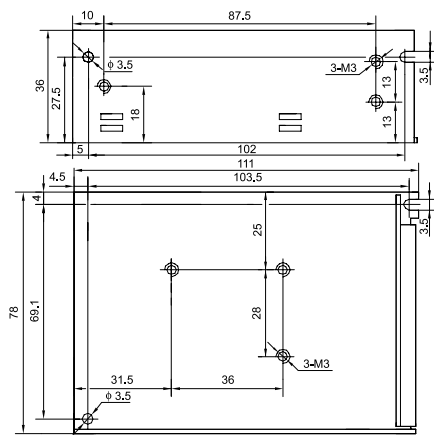




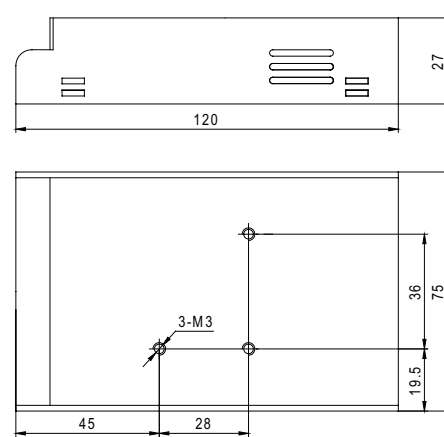
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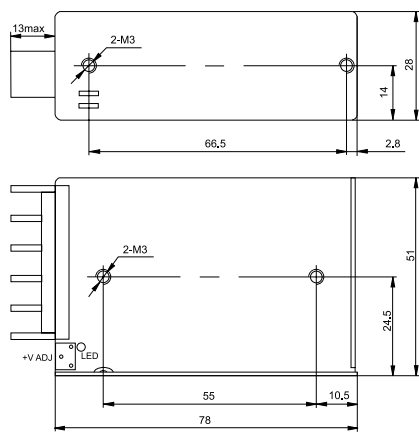
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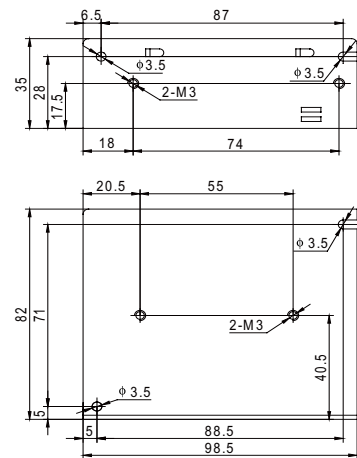
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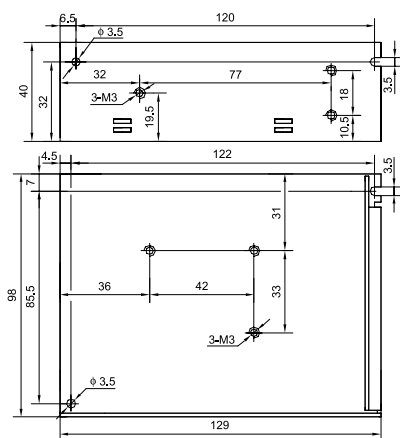
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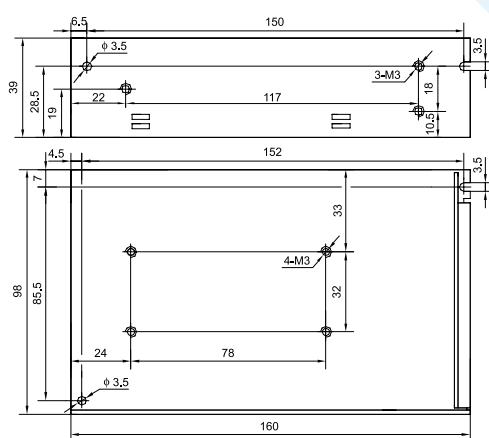
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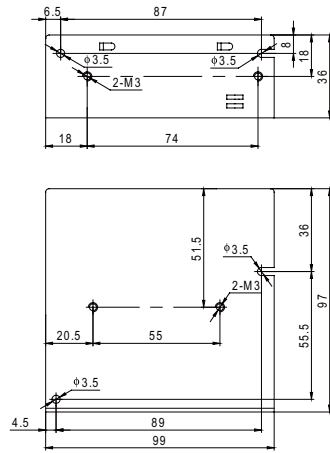
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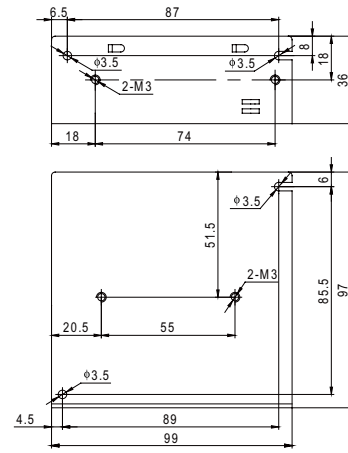
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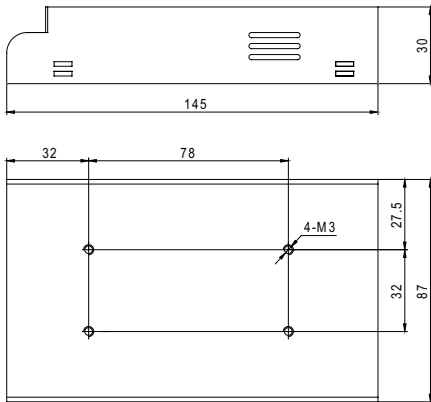
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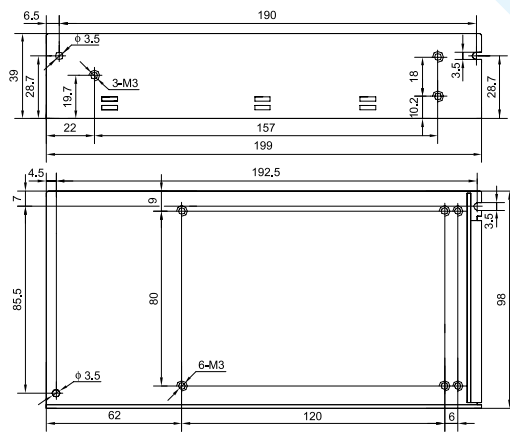
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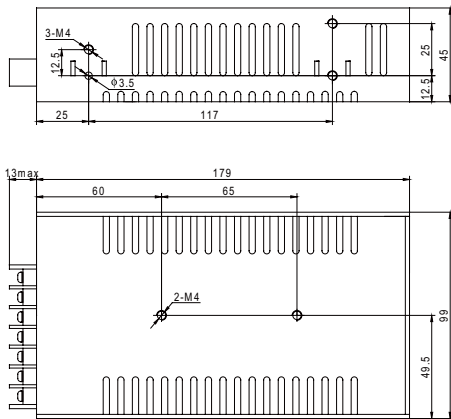
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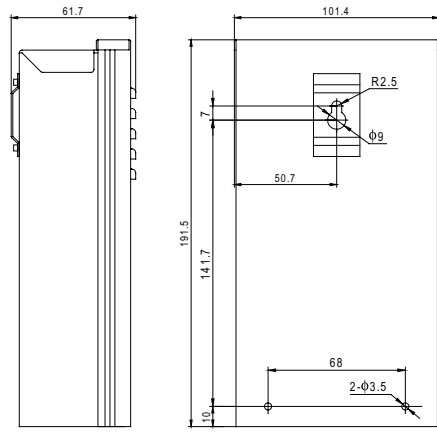
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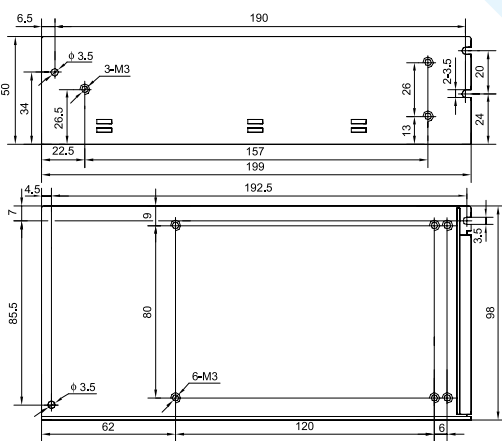
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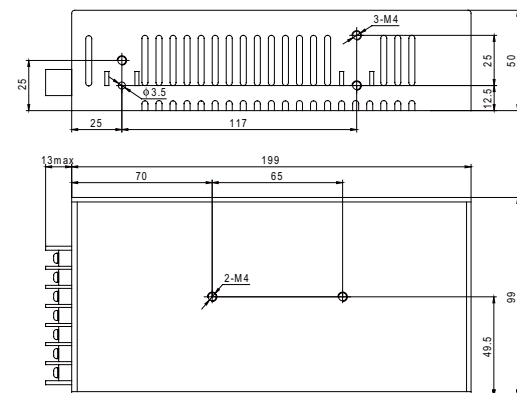
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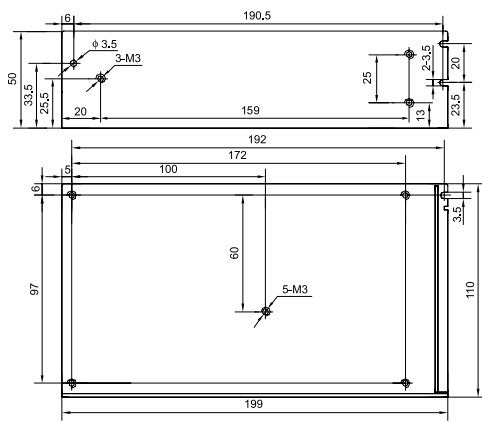
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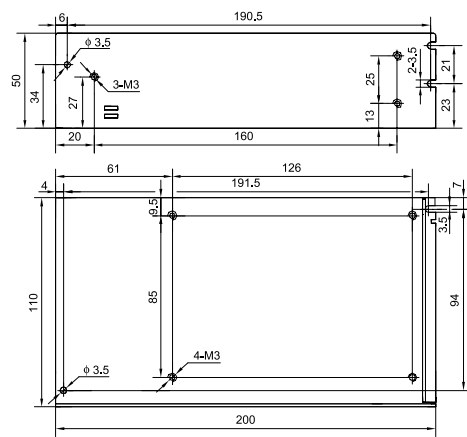
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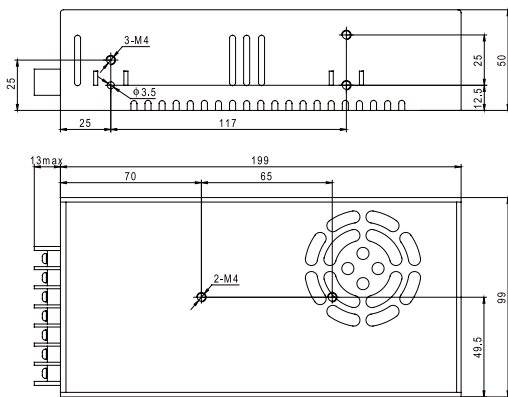
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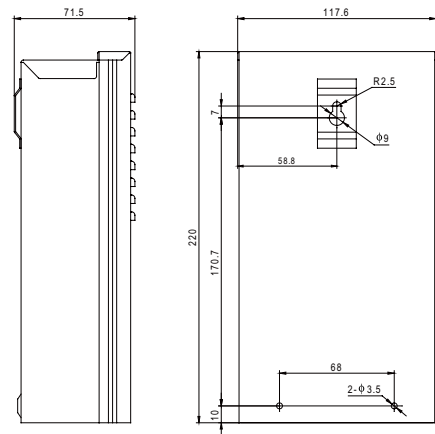
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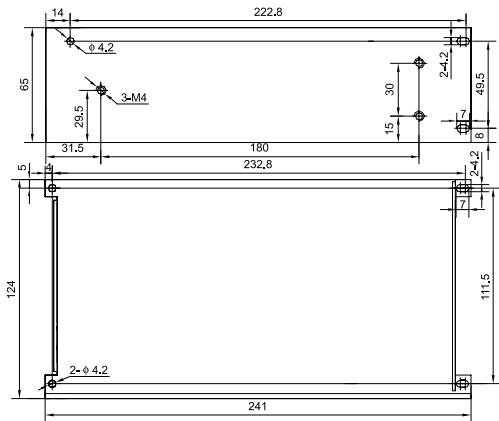
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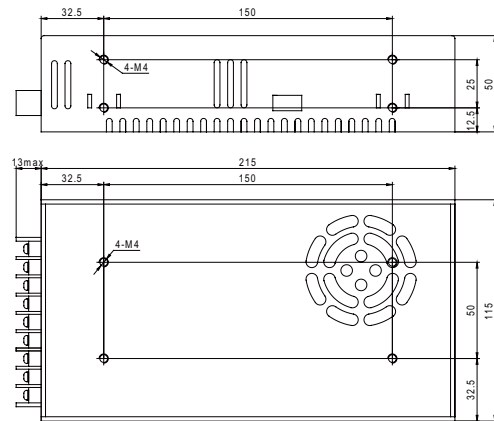
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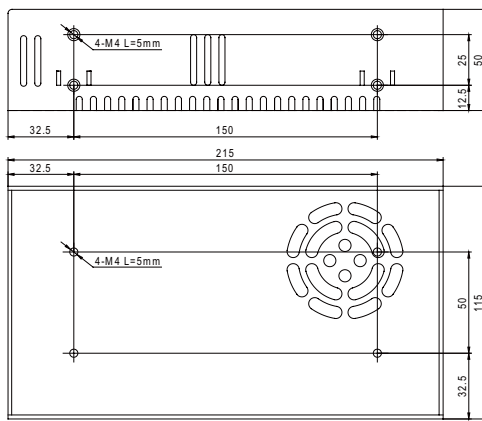
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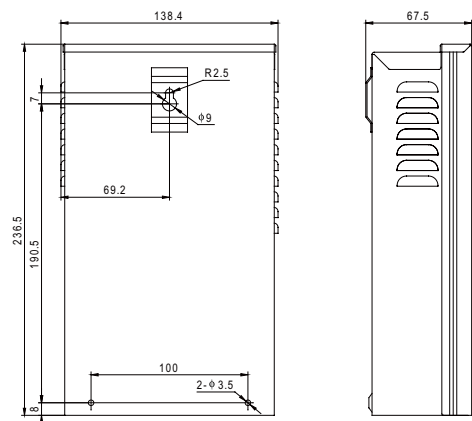
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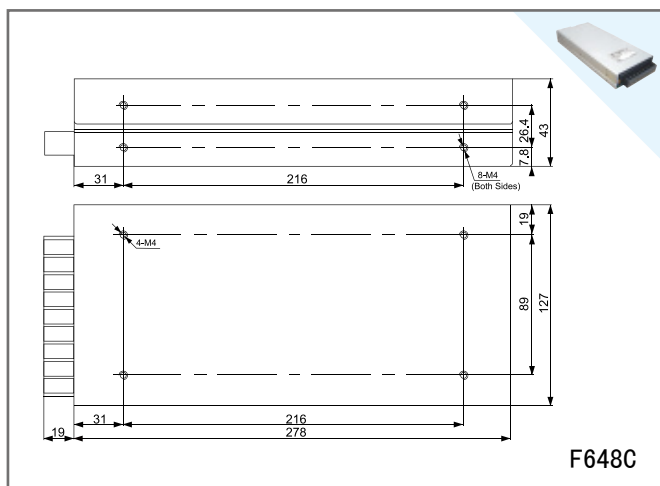
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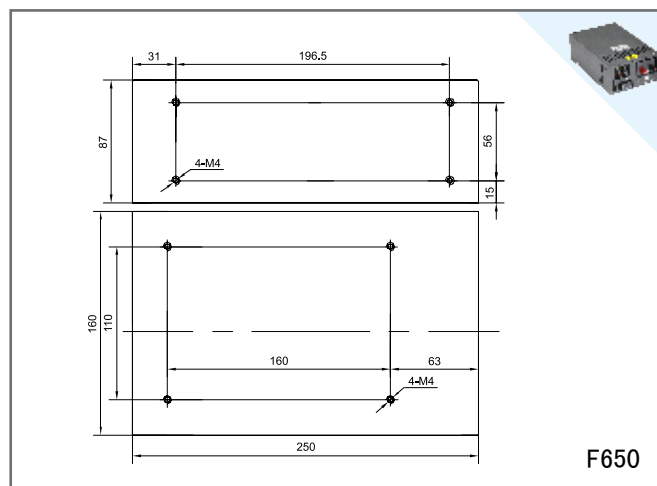
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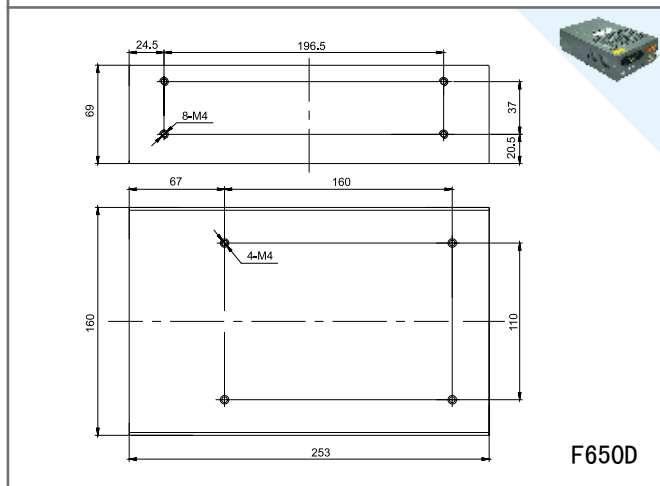
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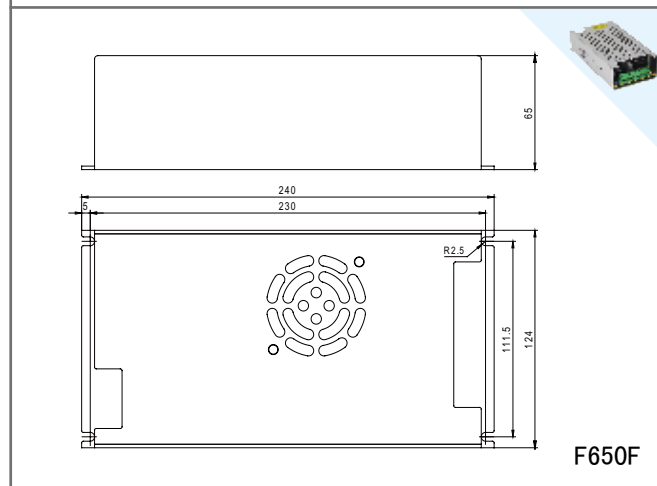
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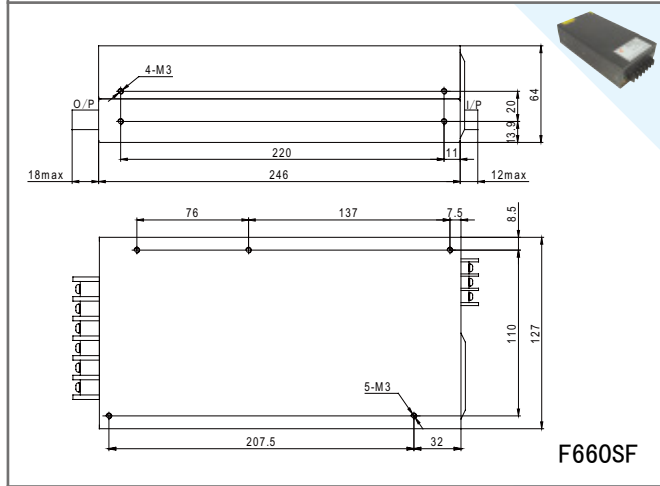
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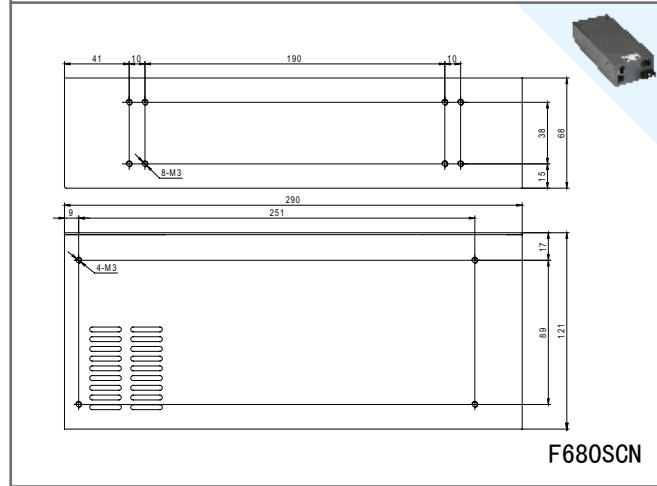
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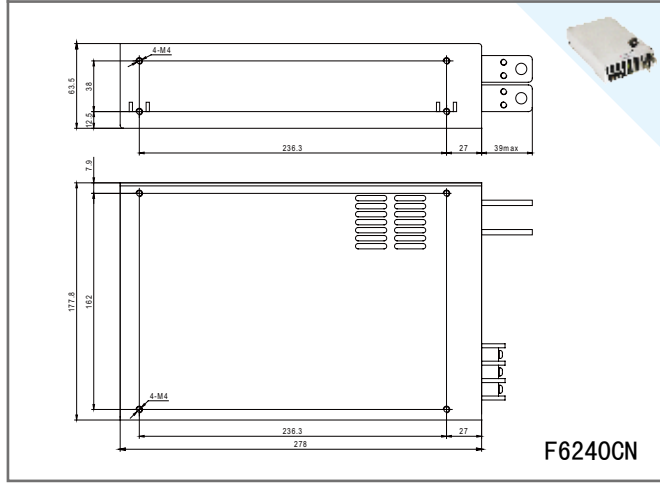
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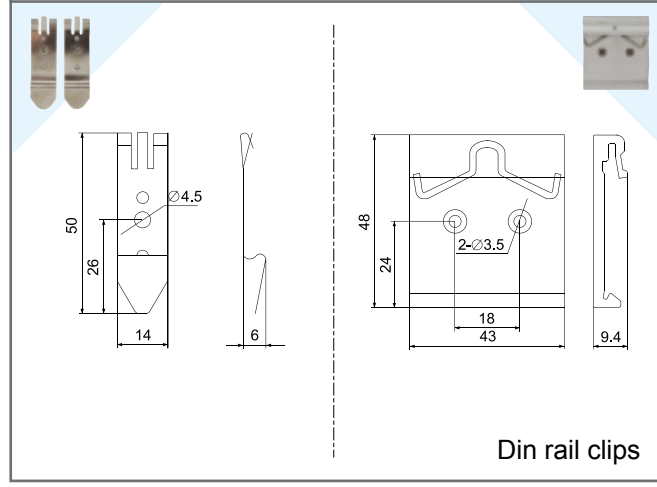
F660SF



F680SCN



F6240CN



Din rail clips

Technical Instructions & Safety Precautions (使用说明和注意事项) :

1. Test condition:

- (1) All parameters are measured at rated input, rated load and 25°C of ambient temperature.
- (2) Line regulation is measured from low line to high line at rated load.
- (3) Load regulation is measured from 0% to 100% of rated load for single output models. For multi-output models, it is measured from 20% to 100% of rated load, and other output at 60% rated load.
- (4) Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- (5) The power supply is regarded as a component which will be installed into the final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

2. Input voltage: Normally, power supplies with AC input can also be applied to DC input. The DC input voltage range shall be 120-370VDC when the AC input voltage range is 85-264VAC; and 210-370VDC when the AC input voltage range is 170-264VAC, or 85-132VAC/170-264VAC selected by switch.

3. Input inrush current: is the maximum peak current when cold start of the power supply.

4. Leakage current: When several sets of power supplies are connected to ground at the same place, the leakage current will be redoubled accordingly. Care must be taken to avoid electric shock.

5. Output ripple and noise:

As shown in fig.1, the ripple and noise of a switching power supply is normally specified by the peak to peak amplitude, and is made up of four AC components which can be identified:

- (1) Low frequency ripple at 2f being of the AC mains frequency.
- (2) High frequency ripple due to Pulse Width Modulation (PWM) to obtain the required line and load regulation.
- (3) The switching noise that has the same frequency of the switching PWM.
- (4) The aperiodic random noise that is not related to the AC source frequency and/or the switching frequency.

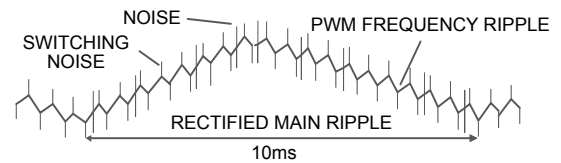


fig.1

6. Multi-output power supplies: For power supplies with multi-output, in our catalog it shows the maximum output current of each output. But the total power of all outputs shall not exceed the rated power of the series. For multi-output products, normally V1 is isolated from the other output(s). To make it common grounded, just connect +/- (accordingly) of V1 to the common connector of the other output(s).

7. Battery charger: Most of our single output power supplies above 100W can be directly used as battery charger by means of floating charge (constant current limiting).

8. Operating temperature: means the surrounding temperature of the power supply when it is working. If it is installed inside the case of an equipment, it means the temperature of the case inside, not the indoor or outdoor temperature. Therefore, if the operating temperature exceeds rated range, we suggest that the practical usable power should be derated by 2%/°C from the rated value or necessary cooling measurements should be taken to meet the required operating temperature.

9. Mean time between failures (MTBF): is the predicted elapsed time between inherent failures of a system during operation. MTBF can be calculated as the arithmetic mean (average) time between failures of a system, according to MIL-HDBK-217F formula. MTBF is normally used to evaluate the reliability of a product.

10. Torque of screw driver: normally max. 0.5N.m to connect wires into the screw terminal blocks.

Warranty Policy (保修条例) :

(1) Products found to be defective within 30 days from the date of receipt can be returned for credit or exchange. Contact us for further information on credit or a RMA number. After the initial 30 days, we will repair the goods according to our warranty period. Defective units should be shipped as "freight prepaid" to us and we will repair and return the goods with your next order. Within first 2 years, the repairing is free of charge. From 3rd to 5th year (some products), reasonable charge will be collected for defective components replaced. If the warranty period has expired, a repair fee (min. 40% of the original purchase price) will be charged.

(2) If customers do the repair by themselves, we can provide reasonable quantity of free components for repairing purpose.

(3) If customers can't send back the defective units or provide the pictures of defective units showing the serial number, the supplier shall reserve the right not to accept the claim.

Hengfu Corporation is the leading manufacturer of industrial switching power supplies in China. We have been supplier for Beijing Olympic Games, 60th National anniversary ceremony and Shanghai Expo2010. The company is ISO9001 certified by SGS and over 50 product series have acquired UL, TUV, CB, CE, CCC approval. Only top brand international components are adopted for our key parts. Our countrywide 15 branch offices and worldwide distributors are ready to offer you professional technical support and prompt service. We look forward to being your long-term trustworthy power partner.
(Published in 2014)



More information, please visit

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