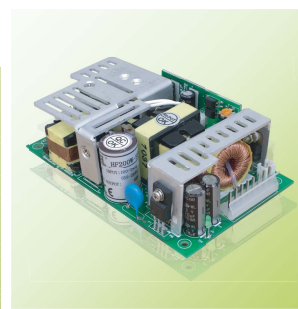


June 2010

HENGFU SWITCHING POWER Supply



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Guangzhou

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Hangzhou

Rm. 1A20, Hangzhou Electronics Center
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Jinan

Rm. 1F140, Times Ouya Electronics Mansion
Tel: 86-531-86117674

Nanjing

Rm. 125, 2nd floor, Hualong Electronics Center
Tel: 86-25-86644513

Shanghai

No. 1B11, Shanghai SEG Electronics Center
Tel: 86-21-61209211

Shenyang

Rm. 212, 3rd floor, South Tower Electronics Center
Tel: 86-24-24150857

Shenzhen

Rm. 21C113, 2nd floor, Huaqiang Electronics World
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Shanghai SEG Office



Xian Office



Shenzhen SEG Office



Beijing Zhongfa Office



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Electronica, Munich



ExpoElectronica, Moscow



ElectronicAsia, Hong Kong



China Electronics, Shanghai



新厂区 New Factory



大厅 Company Lobby



光谱分析仪 RoHS Test



EMI测试 EMI Test



EMS测试 EMS Test

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16000m²，厂房面积11000m²。产品系列从5W到1000W，3000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、开板式电源、导轨安装式电源、充电电源及特殊定制品。“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英国SGS公司ISO9001质量体系认证，现已有40多个产品系列通过UL, TUV, CB, CE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、AI插件机、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、高温老化房、数据采集仪等。产品关键部分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。产品100%满负载老化，年故障率低于0.2%。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中大型企业建立了长期合作关系，分别涉及通信、显示屏、工业控制、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、苏州等中国各大中型城市的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！



波峰焊 Wave Soldering



贴片机 Chip Placer



回流焊 Reflow Soldering



环境试验 Environmental Test



插件 Component Insertion



补焊 Re-soldering



装配 Assembly



包装 Packing

Company Profile

Hengfu Corporation, founded in 1992, is recognized as the leading manufacturer of industrial switching power supplies in China. Our self-invested new factory is located in Shanghai Songjiang, covering an area of 16000m², factory building 11000m². The products include AC/DC & DC/DC standard, PFC, open frame, battery charger, din rail and custom-design switching power supplies, over 3000 models showing great flexibility. "Hengfu" has been a famous brand in China, and increasingly well-known in the world market.

The company is ISO9001:2008 certified by SGS. Over 40 product series have acquired UL, TUV, CB, CE approval, and more are underway. We have various advanced equipment, such as wave soldering and reflow soldering machine, component insertion machine, chip placer, ATE, ICT, RoHS testing, environmental testing, EMC testing system, burn-in test room, data acquisition... Only top brand international components are adopted for the key parts to ensure long lifetime and high reliability. Each unit is given full load burn-in test, our annual failure rate less than 0.2%. 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.

With 18 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 telecom, LED display, industrial control, elevator, laser equipment, TV & broadcasting, computer system, medical equipment, safety control, automotive system... Our countrywide sales team - 12 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.



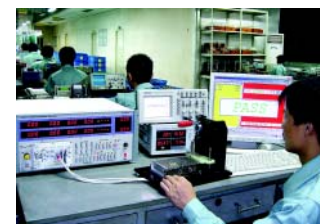
ICT测试 In-Circuit Test



ATE 测试 Automated Test



老化 Burn-in Test



终检 Final Test

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M2 Series



AC/DC, DC/DC Standard



PFC Series



M1 Series

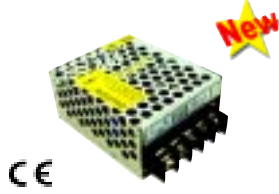


Din Rail & Battery Charger



Open Frame Series

15W Single 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
- F6015SM 62.5 x 51 x 28(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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)
 Storage temperature -20℃~+85℃
 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		Load regul.	R&N	Efficiency
HF15W-SSM-3.3	3.3V	3.0A	0.5%	80mV	72%
HF15W-SSM-5	5V	3.0A	0.5%	80mV	77%
HF15W-SSM-12	12V	1.3A	0.5%	120mV	81%
HF15W-SSM-24	24V	0.65A	0.5%	150mV	82%
HF15W-SSM-48	48V	0.33A	0.5%	200mV	82%

* 3~48VDC output all available.

35W Single Output M2 Series



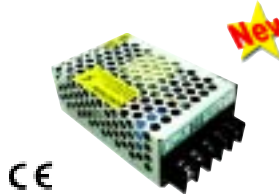
- Miniature size, high power density
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6025 98.5 x 82 x 35(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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)
 Storage temperature -20℃~+85℃
 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		Load regul.	R&N	Efficiency
HF35W-SSM-3.3	3.3V	7.0A	0.5%	80mV	73%
HF35W-SSM-5	5V	7.0A	0.5%	80mV	77%
HF35W-SSM-12	12V	3.0A	0.5%	120mV	81%
HF35W-SSM-24	24V	1.5A	0.5%	150mV	84%
HF35W-SSM-48	48V	0.8A	0.5%	200mV	84%

* 3~48VDC output all available.

25W Single Output M2 Series



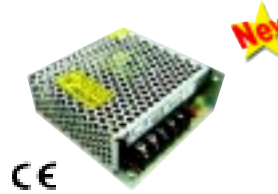
- Miniature size, high power density
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6025SM 78 x 51 x 28(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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)
 Storage temperature -20℃~+85℃
 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		Load regul.	R&N	Efficiency
HF25W-SSM-3.3	3.3V	6.0A	0.5%	80mV	72%
HF25W-SSM-5	5V	5.0A	0.5%	80mV	77%
HF25W-SSM-12	12V	2.1A	0.5%	120mV	79%
HF25W-SSM-24	24V	1.1A	0.5%	150mV	84%
HF25W-SSM-48	48V	0.57A	0.5%	200mV	85%

* 3~48VDC output all available.

50W Single 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
- F605SM 99 x 97 x 36(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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)
 Storage temperature -20℃~+85℃
 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		Load regul.	R&N	Efficiency
HF50W-SSM-3.3	3.3V	10.0A	0.5%	80mV	72%
HF50W-SSM-5	5V	10.0A	0.5%	80mV	78%
HF50W-SSM-12	12V	4.2A	0.5%	120mV	81%
HF50W-SSM-24	24V	2.2A	0.5%	150mV	84%
HF50W-SSM-48	48V	1.1A	0.5%	200mV	86%

* 3~48VDC output all available.



75W~150W Single Output M2 Series

75W Single 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
- F603 129 x 98 x 40(mm)

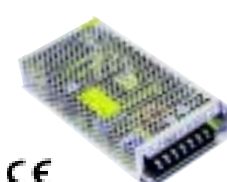


AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
Withstand 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)
Storage temperature	-20℃~+85℃
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		Load regul.	R&N	Efficiency
HF75W-SSM-3.3	3.3V	15.0A	0.5%	80mV	71%
HF75W-SSM-5	5V	12.0A	0.5%	80mV	76%
HF75W-SSM-12	12V	6.0A	0.5%	120mV	81%
HF75W-SSM-24	24V	3.2A	0.5%	150mV	85%
HF75W-SSM-48	48V	1.6A	0.5%	200mV	86%

* 3~48VDC output all available.

150W Single Output M2 Series



- Compact size, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

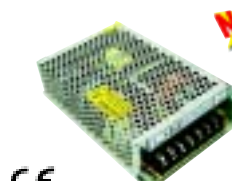


AC input voltage range	85~132/ 170~264VAC selected by switch
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
Output over voltage protection	115~150%
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	-10℃~+50℃
Storage temperature	-20℃~+85℃
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

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SMF-5	5V	25.0A	0.5%	100mV	78%
HF150W-SMF-12	12V	12.5A	0.5%	120mV	82%
HF150W-SMF-15	15V	10.0A	0.5%	120mV	83%
HF150W-SMF-24	24V	6.5A	0.5%	150mV	85%
HF150W-SMF-48	48V	3.1A	0.5%	150mV	87%

* 3~48VDC output all available.

100W Single 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
- 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
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)
Storage temperature	-20℃~+85℃
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		Load regul.	R&N	Efficiency
HF100W-SSM-3.3	3.3V	20.0A	0.5%	80mV	74%
HF100W-SSM-5	5V	16.0A	0.5%	80mV	77%
HF100W-SSM-12	12V	8.5A	0.5%	120mV	81%
HF100W-SSM-24	24V	4.5A	0.5%	150mV	84%
HF100W-SSM-48	48V	2.3A	0.5%	200mV	84%

* 3~48VDC output all available.

150W Single Output M2 Series



- Compact size, high reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 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)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
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	-10℃~+50℃
Storage temperature	-20℃~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SM-5	5V	25.0A	0.5%	100mV	78%
HF150W-SM-12	12V	12.5A	0.5%	120mV	82%
HF150W-SM-15	15V	10.0A	0.5%	120mV	83%
HF150W-SM-24	24V	6.3A	0.5%	150mV	85%
HF150W-SM-48	48V	3.1A	0.5%	150mV	87%

* 3~48VDC output all available.

500W Single Output M2 Series



- Compact size, high reliability
- Built-in fan speed control
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 x 124 x 65(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	60A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA
Cooling method	fan

Model	DC Output	Load regul.	R&N	Efficiency
HF500W-SM-5	5V 80A	1.0%	150mV	76%
HF500W-SM-12	12V 42A	0.5%	150mV	82%
HF500W-SM-24	24V 21A	0.5%	150mV	84%
HF500W-SM-48	48V 10A	0.5%	240mV	86%

* 3~48VDC output all available.

1000W Single Output M2 Series



- Compact size, high reliability
- Built-in fan speed control
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F6100M 253 x 160 x 69(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	60A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA
Cooling method	fan

Model	DC Output	Load regul.	R&N	Efficiency
HF1000W-SM-12	12V 84A	1.0%	150mV	82%
HF1000W-SM-24	24V 42A	0.5%	200mV	84%
HF1000W-SM-28	28V 35A	0.5%	200mV	84%
HF1000W-SM-48	48V 21A	0.5%	240mV	86%

* 12~48VDC output all available.

600W Single Output M2 Series



New

- Compact size, high reliability
- AC input range selected by switch
- Built-in fan speed control
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F660M 246 x 127 x 63.5(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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130% shut down, switch on to recover
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classA
Cooling method	fan

Model	DC Output	Load regul.	R&N	Efficiency
HF600W-SMF-5	5V 100A	0.5%	150mV	78%
HF600W-SMF-12	12V 50A	0.5%	150mV	83%
HF600W-SMF-15	15V 40A	0.5%	150mV	84%
HF600W-SMF-24	24V 25A	0.5%	150mV	87%
HF600W-SMF-27	27V 22.2A	0.5%	150mV	87%
HF600W-SMF-48	48V 12.5A	0.5%	200mV	88%

* 3~48VDC output all available.

35W Dual Output M2 Series



New

- Miniature size, high power density
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6025 98.5 x 82 x 35(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.5mA/ 230VAC
Load regulation	V _I : + 0.5%, V ₂ : + 3% (with regulator); + 6% (without)
Output voltage adjust range	V _I : + 5% of rated output voltage
Output overload protection	105~150%
Output over voltage protection	115~150%
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)
Storage temperature	-20℃ ~+85℃
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 0.3~4.0A	80mV	75%
	12V 0.2~1.0A	120mV	
HF35W-DSM-B	5V 0.3~4.0A	80mV	82%
	24V 0.2~1.3A	120mV	

20W Single Output Series - with approval



- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F602 111 x 78 x 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 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 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	Load regul.	R&N	Efficiency
HF20W-SL-5	5V 4.0A	0.5%	60mV	72%
HF20W-SL-12	12V 1.7A	0.5%	80mV	76%
HF20W-SL-15	15V 1.4A	0.5%	100mV	78%
HF20W-SL-24	24V 0.8A	0.5%	100mV	80%
HF20W-SL-48	48V 0.4A	0.5%	150mV	81%

* 3~48VDC output all available.

25W Single Output Series - with approval



- Universal AC input / full range
- High reliability
- Approvals: UL/ CUL/ CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6025 98.5 x 82 x 35(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 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	Load regul.	R&N	Efficiency
HF25W-SL-3.3	3.3V 6.0A	0.5%	80mV	67%
HF25W-SL-5	5V 5.0A	0.5%	80mV	72%
HF25W-SL-12	12V 2.1A	0.5%	100mV	78%
HF25W-SL-15	15V 1.7A	0.5%	100mV	78%
HF25W-SL-24	24V 1.1A	0.5%	150mV	80%
HF25W-SL-48	48V 0.57A	0.5%	150mV	82%

* 3~48VDC output all available.

20W Single Output Series



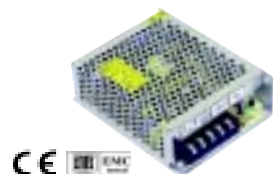
- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF20W-S-5	5V 4.0A	0.5%	60mV	70%
HF20W-S-12	12V 2.0A	0.5%	80mV	75%
HF20W-S-15	15V 1.5A	0.5%	100mV	76%
HF20W-S-24	24V 1.0A	0.5%	100mV	78%
HF20W-S-48	48V 0.5A	0.5%	150mV	80%

* 3~48VDC output all available.

30W Single Output Series - with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 x 98 x 40(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 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 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

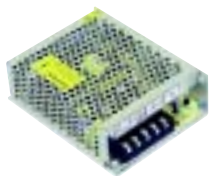
Model	DC Output	Load regul.	R&N	Efficiency
HF30W-SF-5	5V 6.0A	0.5%	60mV	72%
HF30W-SF-12	12V 2.5A	0.5%	80mV	74%
HF30W-SF-15	15V 2.0A	0.5%	100mV	76%
HF30W-SF-24	24V 1.3A	0.5%	100mV	78%
HF30W-SF-48	48V 0.6A	0.5%	150mV	80%

* 3~48VDC output all available.



35W~55W Single Output

35W Single Output Series



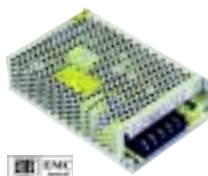
- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current	0.5mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-S-5	5V	7.0A	0.5%	60mV	72%
HF35W-S-12	12V	3.0A	0.5%	80mV	74%
HF35W-S-15	15V	2.4A	0.5%	100mV	76%
HF35W-S-24	24V	1.5A	0.5%	100mV	78%
HF35W-S-48	48V	0.7A	0.5%	150mV	79%

* 3~48VDC output all available.

50W Single Output Series - with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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		Load regul.	R&N	Efficiency
HF50W-SF-5	5V	10.0A	0.5%	80mV	72%
HF50W-SF-12	12V	4.2A	0.5%	100mV	76%
HF50W-SF-15	15V	3.4A	0.5%	100mV	77%
HF50W-SF-24	24V	2.1A	0.5%	100mV	80%
HF50W-SF-48	48V	1.0A	0.5%	150mV	82%

* 3~48VDC output all available.

40W Single Output Series - with approval



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

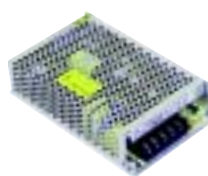


AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
Withstand 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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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		Load regul.	R&N	Efficiency
HF40W-SL-5	5V	8.0A	0.5%	80mV	72%
HF40W-SL-12	12V	3.5A	0.5%	100mV	76%
HF40W-SL-15	15V	2.8A	0.5%	100mV	76%
HF40W-SL-24	24V	1.8A	0.5%	100mV	78%
HF40W-SL-48	48V	0.9A	0.5%	150mV	80%

* 3~48VDC output all available.

55W Single Output Series



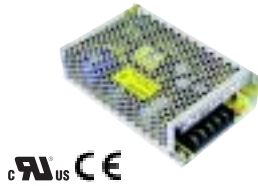
- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

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)	+ 0.5%
Output voltage adjust range	+ 10%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF55W-S-5	5V	11.0A	0.5%	80mV	72%
HF55W-S-12	12V	4.6A	0.5%	100mV	76%
HF55W-S-15	15V	3.7A	0.5%	100mV	77%
HF55W-S-24	24V	2.3A	0.5%	100mV	80%
HF55W-S-48	48V	1.2A	0.5%	150mV	82%

* 3~48VDC output all available.

60W Single Output Series - with approval



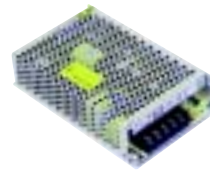
- Universal AC input / full range
- High reliability
- Approvals: UL/ CUL/ CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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		Load regul.	R&N	Efficiency
HF60W-SL-5	5V	12.0A	0.5%	80mV	73%
HF60W-SL-12	12V	5.0A	0.5%	100mV	76%
HF60W-SL-15	15V	4.0A	0.5%	120mV	77%
HF60W-SL-24	24V	2.5A	0.5%	150mV	80%
HF60W-SL-48	48V	1.3A	0.5%	150mV	81%

* 3~48VDC output all available.

70W Single Output Series



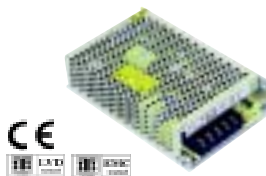
- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

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)	+ 0.5%
Output voltage adjust range	+ 10%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF70W-S-12	12V	6.0A	0.5%	100mV	78%
HF70W-S-15	15V	4.7A	0.5%	100mV	79%
HF70W-S-24	24V	3.0A	0.5%	120mV	82%
HF70W-S-27	27V	2.6A	0.5%	120mV	82%
HF70W-S-48	48V	1.5A	0.5%	150mV	83%

* 12~48VDC output all available.

70W Single Output Series - with approval



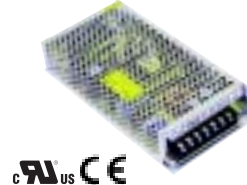
- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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		Load regul.	R&N	Efficiency
HF70W-SF-12	12V	6.0A	0.5%	100mV	78%
HF70W-SF-15	15V	4.7A	0.5%	100mV	79%
HF70W-SF-24	24V	3.0A	0.5%	120mV	82%
HF70W-SF-27	27V	2.6A	0.5%	120mV	82%
HF70W-SF-48	48V	1.5A	0.5%	150mV	83%

* 12~48VDC output all available.

100W Single Output Series - with approval



- AC input range selected by switch
- High reliability
- Approvals: UL/ CUL/ 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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

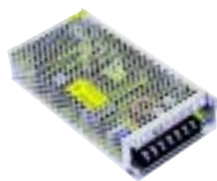
Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SF-5	5V	20.0A	0.5%	100mV	77%
HF100W-SF-7.5	7.5V	13.5A	0.5%	100mV	78%
HF100W-SF-12	12V	8.5A	0.5%	100mV	82%
HF100W-SF-13.8	13.8V	7.5A	0.5%	100mV	82%
HF100W-SF-15	15V	6.7A	0.5%	100mV	82%
HF100W-SF-24	24V	4.5A	0.5%	100mV	83%
HF100W-SF-48	48V	2.2A	0.5%	150mV	84%

* 3~48VDC output all available.



100W~150W Single Output

100W Single Output Series



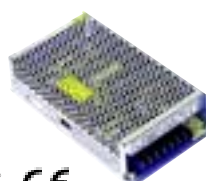
- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

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)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-S-5	5V	20.0A	0.5%	100mV	77%
HF100W-S-7.5	7.5V	13.5A	0.5%	100mV	78%
HF100W-S-12	12V	9.0A	0.5%	100mV	82%
HF100W-S-13.8	13.8V	8.0A	0.5%	100mV	82%
HF100W-S-15	15V	7.0A	0.5%	100mV	82%
HF100W-S-24	24V	5.0A	0.5%	100mV	83%
HF100W-S-48	48V	2.1A	0.5%	150mV	84%

* 3~48VDC output all available.

150W Single Output Series - with approval



- AC input range selected by switch
- High reliability
- Approvals: UL/ CUL/ CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615UL 199 x 110 x 50(mm)



AC input voltage range	88~132/ 176~264VAC selected by switch
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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		Load regul.	R&N	Efficiency
HF150W-SF-5	5V	30.0A	0.5%	120mV	78%
HF150W-SF-7.5	7.5V	20.0A	0.5%	120mV	80%
HF150W-SF-9	9V	16.7A	0.5%	120mV	80%
HF150W-SF-12	12V	12.5A	0.5%	120mV	82%
HF150W-SF-24	24V	6.5A	0.5%	150mV	85%
HF150W-SF-27	27V	5.6A	0.5%	150mV	85%
HF150W-SF-36	36V	4.2A	0.5%	200mV	86%

* 3~48VDC output all available.

100W Single Output Series - with PFC



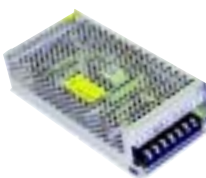
- Universal AC input / full range
- High reliability
- PF>0.98@115VAC; >0.94@230VAC
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610C 179 x 99 x 45(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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		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	76%
HF100W-SC-7.5	7.5V	13.5A	0.5%	100mV	78%
HF100W-SC-12	12V	8.5A	0.5%	100mV	80%
HF100W-SC-15	15V	6.7A	0.5%	100mV	82%
HF100W-SC-24	24V	4.2A	0.5%	150mV	84%
HF100W-SC-48	48V	2.1A	0.5%	250mV	84%

* 3~48VDC output all available.

150W Single Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F615 199 x 98 x 50(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	110~130%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-S-5	5V	30.0A	0.5%	120mV	78%
HF150W-S-7.5	7.5V	20.0A	0.5%	120mV	80%
HF150W-S-9	9V	17.0A	0.5%	120mV	80%
HF150W-S-12	12V	12.5A	0.5%	120mV	82%
HF150W-S-24	24V	6.3A	0.5%	150mV	83%
HF150W-S-36	36V	4.2A	0.5%	200mV	85%
HF150W-S-48	48V	3.1A	0.5%	200mV	86%

* 3~48VDC output all available.

150W Single Output Series - with PFC



- Universal AC input / full range
- High reliability
- Approvals: TUV/ CB/ CE
- PF>0.98@115VAC; >0.94@230VAC
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F615C 199 x 99 x 50(mm)

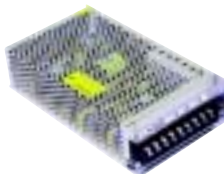


AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%, current limiting, auto recovery
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 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	Load regul.	R&N	Efficiency
HF150W-SC-3.3	3.3V 30.0A	0.5%	100mV	67%
HF150W-SC-5	5V 30.0A	0.5%	100mV	75%
HF150W-SC-7.5	7.5V 20.0A	0.5%	100mV	79%
HF150W-SC-12	12V 12.5A	0.5%	100mV	80%
HF150W-SC-13.5	13.5V 11.2A	0.5%	100mV	80%
HF150W-SC-15	15V 10.0A	0.5%	100mV	81%
HF150W-SC-24	24V 6.3A	0.5%	150mV	83%
HF150W-SC-48	48V 3.2A	0.5%	250mV	84%

* 3~48VDC output all available.

200W Single Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F620 200 x 110 x 50(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 110~130%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF200W-S-5	5V 40.0A	0.5%	100mV	78%
HF200W-S-7.5	7.5V 26.5A	0.5%	100mV	79%
HF200W-S-9	9V 22.0A	0.5%	100mV	80%
HF200W-S-12	12V 16.7A	0.5%	100mV	82%
HF200W-S-24	24V 10.0A	0.5%	120mV	83%
HF200W-S-48	48V 5.0A	0.5%	150mV	86%

* 3~48VDC output all available.

200W Single Output Series - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Built in fan speed control
- Approvals: TUV/ CB/ CE
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F620C 199 x 99 x 50(mm)

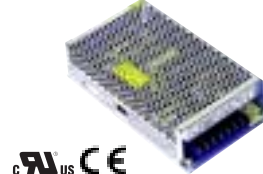


AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%, current limiting, auto recovery
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 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

Model	DC Output	Load regul.	R&N	Efficiency
HF200W-SC-3.3	3.3V 40.0A	0.5%	100mV	65%
HF200W-SC-5	5V 40.0A	0.5%	100mV	71%
HF200W-SC-7.5	7.5V 26.7A	0.5%	100mV	76%
HF200W-SC-12	12V 16.7A	0.5%	100mV	79%
HF200W-SC-13.5	13.5V 15.0A	0.5%	100mV	80%
HF200W-SC-15	15V 13.5A	0.5%	100mV	81%
HF200W-SC-24	24V 8.4A	0.5%	150mV	83%
HF200W-SC-48	48V 4.2A	0.5%	240mV	84%

* 3~48VDC output all available.

240W Single Output Series - with approval



- AC input range selected by switch
- High reliability
- Approvals: UL/ CUL/ CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615UL 199 x 110 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 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF240W-SF-5	5V 40.0A	0.5%	100mV	80%
HF240W-SF-7.5	7.5V 30.0A	0.5%	100mV	82%
HF240W-SF-12	12V 18.0A	0.5%	100mV	83%
HF240W-SF-15	15V 15.0A	0.5%	100mV	84%
HF240W-SF-24	24V 10.0A	0.5%	120mV	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.



300W~400W Single Output

300~400W Single Output Series



- High reliability, low cost
- Built in fan speed control
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 x 124 x 65(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 110~130%, current limiting, auto recovery
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design refer to GB4943, UL60950, EN60950
 EMC standards design refer to GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-S-5	5V	60.0A	0.5%	100mV	76%
HF300W-S-12	12V	25.0A	0.5%	120mV	83%
HF300W-S-24	24V	12.5A	0.5%	120mV	85%
HF300W-S-48	48V	6.3A	0.5%	150mV	86%
HF400W-S-12	12V	33.0A	0.5%	150mV	83%
HF400W-S-24	24V	17.0A	0.5%	150mV	85%
HF400W-S-36	36V	11.0A	0.5%	150mV	85%
HF400W-S-48	48V	8.3A	0.5%	200mV	86%

* 3~48VDC output all available.

350W Single Output Series



- AC input range selected by switch
- High reliability
- Built in fan speed control
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F632C 215 x 115 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 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-SF-5	5V	60.0A	0.5%	150mV	75%
HF350W-SF-7.5	7.5V	40.0A	0.5%	150mV	77%
HF350W-SF-12	12V	29.0A	0.5%	150mV	75%
HF350W-SF-13.5	13.5V	25.8A	0.5%	150mV	80%
HF350W-SF-15	15V	23.2A	0.5%	150mV	79%
HF350W-SF-24	24V	14.6A	0.5%	150mV	82%
HF350W-SF-27	27V	13.0A	0.5%	150mV	83%
HF350W-SF-48	48V	7.3A	0.5%	240mV	84%

* 3~48VDC output all available.

320W Single Output Series - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Built in fan speed control
- Approvals: UL/ CUL/ CE
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F632C 215 x 115 x 50(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 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

Model	DC Output		Load regul.	R&N	Efficiency
HF320W-SC-5	5V	60.0A	0.5%	100mV	79%
HF320W-SC-7.5	7.5V	40.0A	0.5%	100mV	83%
HF320W-SC-12	12V	25.0A	0.5%	100mV	86%
HF320W-SC-13.5	13.5V	22.0A	0.5%	100mV	86%
HF320W-SC-15	15V	20.0A	0.5%	100mV	86%
HF320W-SC-24	24V	13.0A	0.5%	150mV	87%
HF320W-SC-27	27V	11.7A	0.5%	150mV	88%
HF320W-SC-48	48V	6.7A	0.5%	240mV	89%

* 3~48VDC output all available.

350W Single Output Series



- High reliability
- Built in fan speed control
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F632C 215 x 115 x 50(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 110~130%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-S-5	5V	60.0A	0.5%	150mV	75%
HF350W-S-7.5	7.5V	40.0A	0.5%	150mV	77%
HF350W-S-12	12V	29.0A	0.5%	150mV	75%
HF350W-S-13.5	13.5V	25.8A	0.5%	150mV	80%
HF350W-S-15	15V	23.2A	0.5%	150mV	79%
HF350W-S-24	24V	14.6A	0.5%	150mV	82%
HF350W-S-27	27V	13.0A	0.5%	150mV	83%
HF350W-S-48	48V	7.3A	0.5%	240mV	84%

* 3~48VDC output all available.

480W Single Output Series - with PFC



- Universal AC input / full range
- PF>0.98@115VAC; >0.94@230VAC
- Built in remote sense (option)
- Remote ON/OFF control (option)
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F648C 278 x 127 x 43(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115VAC, 40A/230VAC
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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	fan

Model	DC Output	Load regul.	R&N	Efficiency
HF480W-SC-3.3	3.3V 85A	0.5%	100mV	73%
HF480W-SC-5	5V 85A	0.5%	100mV	79%
HF480W-SC-12	12V 43A	0.5%	100mV	85%
HF480W-SC-15	15V 35A	0.5%	100mV	85%
HF480W-SC-24	24V 22A	0.5%	150mV	87%
HF480W-SC-48	48V 11A	0.5%	240mV	89%

* 3~48VDC output all available.

500~1000W Single Output Series

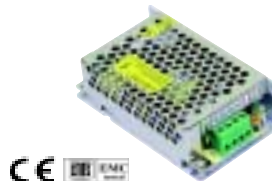


- High reliability, low cost
- Built in fan speed control
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F650 250 x 160 x 87(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	60A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design refer to GB4943, UL60950, EN60950
EMC standards	design refer to GB9254, EN55022 classA
Cooling method	fan

Model	DC Output	Load regul.	R&N	Efficiency
HF500W-S-12	12V 42.0A	0.5%	120mV	83%
HF500W-S-24	24V 21.0A	0.5%	150mV	85%
HF600W-S-24	24V 25.0A	0.5%	150mV	85%
HF600W-S-48	48V 13.0A	0.5%	240mV	87%
HF700W-S-48	48V 15.0A	0.5%	240mV	87%
HF800W-S-24	24V 33.0A	0.5%	150mV	85%
HF800W-S-48	48V 17.0A	0.5%	240mV	87%
HF900W-S-30	30V 30.0A	0.5%	150mV	86%
HF1000W-S-24	24V 42.0A	0.5%	150mV	85%
HF1000W-S-48	48V 21.0A	0.5%	240mV	87%

10W Dual Output Series - with approval

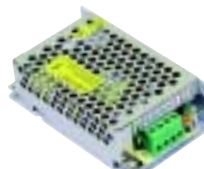


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F601 100 x 58 x 31(mm)

AC input voltage range	85~264VAC (120~370VDC)
Inrush current	cold start, 15A/115V, 30A/230V
Input leakage current	0.5mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation	V1: + 0.5%, V2: + 3% (with regulator); + 6% (without)
Output voltage adjust range	V1: + 5% of rated output voltage
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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	50mV	67%
	5V 0.10~1.0A	80mV	
HF10W-DL-B	5V 0.20~1.8A	50mV	69%
	12V 0.10~0.5A	100mV	
HF10W-DL-C	5V 0.20~1.8A	50mV	70%
	15V 0.10~0.5A	100mV	
HF10W-DL-D	5V 0.20~1.8A	50mV	72%
	24V 0.05~0.3A	100mV	

10W Dual Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F601 100 x 58 x 31(mm)

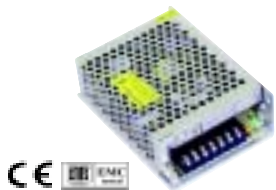
AC input voltage range	170~264VAC (210~370VDC)
Inrush current	cold start, 30A/230V
Input leakage current	0.5mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation	V1: + 0.5%, V2: + 3% (with regulator); + 6% (without)
Output voltage adjust range	V1: + 5% of rated output voltage
Output overload 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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output	R&N	Efficiency
HF10W-D-A	5V 0.20~1.8A	50mV	67%
	5V 0.10~1.0A	80mV	
HF10W-D-B	5V 0.20~1.8A	50mV	69%
	12V 0.10~0.5A	100mV	
HF10W-D-C	5V 0.20~1.8A	50mV	70%
	15V 0.10~0.5A	100mV	
HF10W-D-D	5V 0.20~1.8A	50mV	72%
	24V 0.05~0.3A	100mV	



20W~35W Dual Output

20W Dual Output Series - with approval

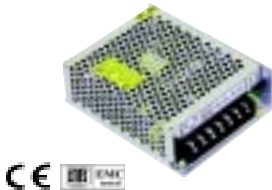


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3% (with regulator);
 + 6% (without)
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 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	0.4~3.0A	50mV	69%
	5V	0.2~1.5A	50mV	
HF20W-DL-B	5V	0.4~3.0A	50mV	70%
	12V	0.0~1.0A	80mV	
HF20W-DL-C	5V	0.4~3.0A	50mV	71%
	15V	0.0~1.0A	80mV	
HF20W-DL-D	5V	0.4~3.0A	50mV	72%
	24V	0.1~0.7A	100mV	

30W Dual Output Series - with approval



- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3% (with regulator);
 + 6% (without)
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 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	50mV	68%
	5V	0.0~1.5A	50mV	
HF30W-DF-B	5V	0.5~4.0A	50mV	69%
	12V	0.0~1.5A	80mV	
HF30W-DF-C	5V	0.5~4.0A	50mV	72%
	24V	0.0~1.0A	100mV	
HF30W-DF-D	12V	0.2~2.0A	80mV	68%
	12V	0.0~1.5A	80mV	

20W Dual Output Series

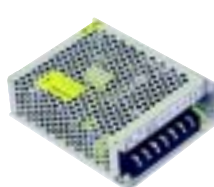


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3% (with regulator);
 + 6% (without)
 Output voltage adjust range V₁: + 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-D-A	5V	0.4~3.0A	50mV	68%
	5V	0.2~1.5A	50mV	
HF20W-D-B	5V	0.4~3.0A	50mV	69%
	12V	0.0~1.0A	80mV	
HF20W-D-C	5V	0.4~3.0A	50mV	69%
	15V	0.0~1.0A	80mV	
HF20W-D-D	5V	0.4~3.0A	50mV	71%
	24V	0.1~0.7A	100mV	

35W Dual Output Series

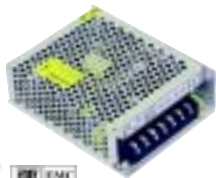


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3% (with regulator);
 + 6% (without)
 Output voltage adjust range V₁: + 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF35W-D-A	5V	0.5~4.0A	50mV	68%
	5V	0.0~2.0A	50mV	
HF35W-D-B	5V	0.5~4.0A	50mV	69%
	12V	0.0~2.0A	80mV	
HF35W-D-C	5V	0.5~4.0A	50mV	72%
	24V	0.0~1.0A	100mV	
HF35W-D-D	12V	0.2~2.0A	80mV	68%
	12V	0.0~2.0A	80mV	

40W Dual Output Series - with approval



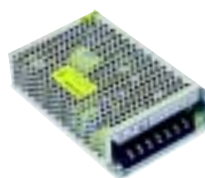
- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F603 129 x 98 x 40(mm)



AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2 : $\pm 3\%$ (with regulator);
 $\pm 6\%$ (without)
 Output voltage adjust range V_1 : $\pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 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-DL-A	5V	0.5~5.0A	60mV	70%
	5V	0.4~2.0A	80mV	
HF40W-DL-B	5V	0.5~5.0A	60mV	71%
	12V	0.2~2.0A	100mV	
HF40W-DL-C	5V	0.5~5.0A	60mV	73%
	24V	0.0~1.5A	100mV	
HF40W-DL-D	12V	0.2~2.5A	100mV	72%
	12V	0.0~1.5A	100mV	

55W Dual Output Series

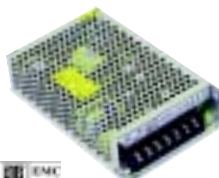


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2 : $\pm 3\%$ (with regulator);
 $\pm 6\%$ (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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF55W-D-A	5V	0.5~6.0A	50mV	68%
	12V	0.0~2.5A	100mV	
HF55W-D-B	5V	0.5~6.0A	50mV	70%
	24V	0.0~1.5A	100mV	
HF55W-D-C	12V	0.2~4.0A	80mV	70%
	12V	0.0~2.5A	100mV	
HF55W-D-D	27V	0.1~1.5A	100mV	73%
	27V	0.0~1.5A	100mV	

50W Dual Output Series - with approval



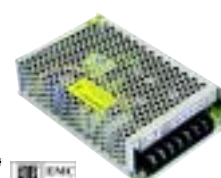
- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F605 160 x 98 x 39(mm)



AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2 : $\pm 3\%$ (with regulator);
 $\pm 6\%$ (without)
 Output voltage adjust range V_1 : $\pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 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	0.5~6.0A	50mV	68%
	12V	0.0~2.5A	100mV	
HF50W-DF-B	5V	0.5~6.0A	50mV	70%
	24V	0.0~1.5A	100mV	
HF50W-DF-C	12V	0.2~4.0A	80mV	70%
	12V	0.0~2.5A	100mV	
HF50W-DF-D	27V	0.1~1.5A	100mV	73%
	27V	0.0~1.5A	100mV	

60W Dual Output Series - with approval



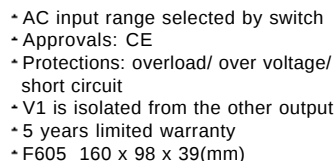
- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2 : $\pm 3\%$ (with regulator);
 $\pm 6\%$ (without)
 Output voltage adjust range V_1 : $\pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 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	0.5~6.0A	80mV	72%
	12V	0.2~4.0A	150mV	
HF60W-DL-B	5V	0.3~6.0A	80mV	75%
	24V	0.0~2.0A	100mV	
HF60W-DL-C	12V	0.3~4.0A	100mV	74%
	12V	0.2~3.0A	120mV	
HF60W-DL-D	15V	0.3~3.0A	100mV	74%
	15V	0.2~2.5A	150mV	



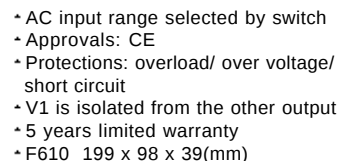
70W Dual Output Series - with approval



AC input voltage range	85~132/ 170~264VAC selected by switch
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation	V _i : + 0.5%, V _z : + 3% (with regulator); + 6% (without)
Output voltage adjust range	V _i : + 5% of rated output voltage
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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	0.2–5.0A	100mV	71%
	12V	0.0–2.5A	100mV	
HF70W-DF-B	12V	0.2–5.0A	100mV	72%
	15V	0.0–2.0A	100mV	
HF70W-DF-C	12V	0.2–5.0A	100mV	74%
	24V	0.0–2.0A	120mV	

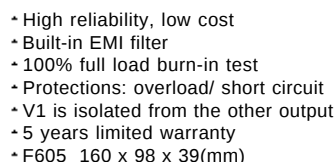
100W Dual Output Series - with approval



AC input voltage range	85~132/ 170~264VAC selected by switch
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	± 0.5%
Load regulation	V ₁ : + 0.5%, V ₂ : + 3%
Output voltage adjust range	V ₁ : + 5% of rated output voltage
Output overload protection	110~130%
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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	2.0~15.0A	80mV	73%
	12V	0.0~5.00A	100mV	
HF100W-DF-B	5V	2.0~15.0A	80mV	74%
	15V	0.0~4.00A	100mV	
HF100W-DF-C	5V	2.0~15.0A	80mV	76%
	24V	0.0~3.00A	120mV	

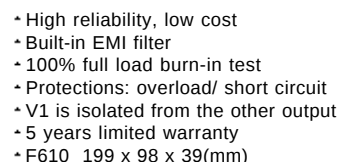
70W Dual Output Series



AC input voltage range	170~264VAC (210~370VDC)
Inrush current	cold start, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation	V _i : + 0.5%, V _o : + 3% (with regulator); + 6% (without)
Output voltage adjust range	V _i : + 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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF70W-D-A	12V	0.2~5.0A	100mV	71%
	12V	0.0~2.5A	100mV	
HF70W-D-B	12V	0.2~5.0A	100mV	72%
	15V	0.0~2.0A	100mV	
HF70W-D-C	12V	0.2~5.0A	100mV	74%
	24V	0.0~2.0A	120mV	

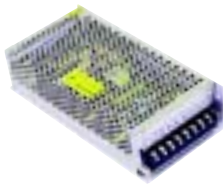
100W Dual Output Series



AC input voltage range	170~264VAC (210~370VDC)
Inrush current.....	cold start, 40A/230V
Input leakage current.....	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation.....	V ₁ : + 0.5%, V ₂ : + 3%
Output voltage adjust range	V ₁ : + 5% of rated output voltage
Output overload protection	110~130%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF100W-D-A	5V	2.0~15.0A	80mV	73%
	12V	0.0~5.00A	100mV	
HF100W-D-B	5V	2.0~15.0A	80mV	74%
	15V	0.0~4.00A	100mV	
HF100W-D-C	5V	2.0~15.0A	80mV	76%
	24V	0.0~3.00A	120mV	

150W Dual Output Series

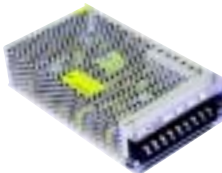


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F615 199 x 98 x 50(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF150W-D-A	5V	2.0~18.0A	100mV	74%
	12V	0.0~5.00A	100mV	
HF150W-D-B	5V	2.0~18.0A	100mV	77%
	24V	0.0~3.00A	100mV	
HF150W-D-C	15V	1.0~8.00A	120mV	79%
	15V	0.0~4.00A	120mV	
HF150W-D-D	24V	0.5~5.00A	150mV	80%
	12V	0.0~4.00A	100mV	

200W Dual Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F620 200 x 110 x 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) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF200W-D-A	24V	0.8~8.00A	150mV	83%
	12V	0.0~3.00A	150mV	
HF200W-D-B	27V	0.6~7.00A	180mV	83%
	12V	0.0~3.00A	150mV	
HF200W-D-C	36V	0.3~6.00A	200mV	84%
	12V	0.0~3.00A	150mV	
HF200W-D-D	24V	0.8~8.00A	150mV	82%
	5V	0.0~3.00A	120mV	

300~400W Dual Output Series



- High reliability, low cost
- Built-in fan speed control
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F630 241 x 124 x 65(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) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design refer to GB4943, UL60950, EN60950
 EMC standards design refer to GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		R&N	Efficiency
HF300W-D-A	24V	2.0~12.0A	150mV	82%
	5V	0.0~3.00A	100mV	
HF300W-D-B	24V	2.0~11.0A	150mV	83%
	12V	0.0~3.00A	120mV	
HF400W-D-A	24V	2.0~16.0A	150mV	82%
	12V	0.0~3.00A	120mV	
HF400W-D-B	27V	2.0~15.0A	180mV	83%
	12V	0.0~3.00A	120mV	

500~1000W Dual Output Series



- High reliability, low cost
- Built-in fan speed control
- Protections: overload/ over voltage/ over temperature/ short circuit
- V1 is isolated from the other output
- 5 years limited warranty
- F650 250 x 160 x 87(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current 60A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 1%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design refer to GB4943, UL60950, EN60950
 EMC standards design refer to GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		R&N	Efficiency
HF500W-D-A	24V	0.0~21.0A	200mV	82%
	12V	0.0~3.00A	150mV	
HF800W-D-A	24V	0.0~30.0A	200mV	82%
	12V	0.0~3.00A	150mV	
HF800W-D-B	28V	0.0~28.0A	200mV	83%
	12V	0.0~3.00A	150mV	
HF1000W-D-A	48V	0.0~20.0A	240mV	84%
	12V	0.0~3.00A	150mV	



10W~20W Triple Output

10W Triple Output Series - with approval

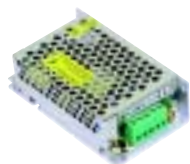


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F601 100 x 58 x 31(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3% (with regulators);
 + 6% (without)
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 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	0.20~1.5A	50mV	70%
	12V	0.05~0.3A	100mV	
	-12V	0.05~0.3A	100mV	
HF10W-TL-B	5V	0.20~1.5A	50mV	71%
	15V	0.05~0.3A	100mV	
	-15V	0.05~0.3A	100mV	
HF10W-TL-C	5V	0.20~1.5A	50mV	68%
	12V	0.05~0.3A	100mV	
	-5V	0.10~0.5A	80mV	

10W Triple Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F601 100 x 58 x 31(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3% (with regulators);
 + 6% (without)
 Output voltage adjust range V₁: + 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF10W-T-A	5V	0.20~1.5A	50mV	70%
	12V	0.05~0.3A	100mV	
	-12V	0.05~0.3A	100mV	
HF10W-T-B	5V	0.20~1.5A	50mV	71%
	15V	0.05~0.3A	100mV	
	-15V	0.05~0.3A	100mV	
HF10W-T-C	5V	0.20~1.5A	50mV	68%
	12V	0.05~0.3A	100mV	
	-5V	0.10~0.5A	80mV	

20W Triple Output Series - with approval

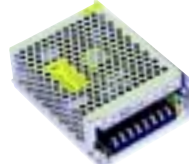


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3% (with regulators);
 + 6% (without)
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 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	0.3~2.5A	50mV	71%
	12V	0.1~0.8A	100mV	
	-12V	0.1~0.8A	100mV	
HF20W-TL-B	5V	0.3~2.5A	50mV	72%
	15V	0.1~0.8A	100mV	
	-15V	0.1~0.8A	100mV	
HF20W-TL-C	5V	0.3~2.5A	50mV	69%
	12V	0.1~0.8A	100mV	
	-5V	0.1~1.0A	80mV	

20W Triple Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3% (with regulators);
 + 6% (without)
 Output voltage adjust range V₁: + 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-T-A	5V	0.3~2.5A	50mV	68%
	12V	0.1~1.0A	100mV	
	-12V	0.1~1.0A	100mV	
HF20W-T-B	5V	0.3~2.5A	50mV	69%
	15V	0.1~0.8A	100mV	
	-15V	0.1~0.8A	100mV	
HF20W-T-C	5V	0.3~2.5A	50mV	68%
	12V	0.1~1.0A	100mV	
	-5V	0.1~1.0A	80mV	

30W Triple Output Series - with approval

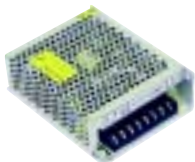


- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation $V_1: \pm 0.5\%, V_2, V_3: \pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 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
	V	I		
HF30W-TF-A	5V	0.5~3.5A	50mV	69%
	12V	0.1~1.2A	100mV	
	-12V	0.1~0.8A	100mV	
HF30W-TF-B	5V	0.5~3.5A	50mV	70%
	15V	0.1~0.8A	120mV	
	-15V	0.0~0.5A	120mV	
HF30W-TF-C	5V	0.5~3.5A	50mV	68%
	12V	0.1~1.2A	100mV	
	-5V	0.0~1.0A	80mV	

35W Triple Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation $V_1: \pm 0.5\%, V_2, V_3: \pm 3\%$ (with regulators);
 $\pm 6\%$ (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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
	V	I		
HF35W-T-A	5V	0.5~3.5A	50mV	69%
	12V	0.1~1.2A	100mV	
	-12V	0.1~0.8A	100mV	
HF35W-T-B	5V	0.5~3.5A	50mV	70%
	15V	0.1~0.8A	120mV	
	-15V	0.0~0.5A	120mV	
HF35W-T-C	5V	0.5~3.5A	50mV	68%
	12V	0.1~1.2A	100mV	
	-5V	0.0~1.0A	80mV	

40W Triple Output Series - with approval



- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation $V_1: \pm 0.5\%, V_2, V_3: \pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 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
	V	I		
HF40W-TL-A	5V	0.5~4.0A	50mV	68%
	12V	0.2~1.5A	100mV	
	-12V	0.2~1.5A	100mV	
HF40W-TL-B	5V	0.5~4.0A	50mV	69%
	15V	0.0~1.0A	100mV	
	-15V	0.1~1.0A	100mV	
HF40W-TL-C	5V	0.5~4.0A	50mV	68%
	12V	0.2~1.5A	100mV	
	-5V	0.2~1.5A	80mV	

50W Triple Output Series - with approval



- AC input range selected by switch
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

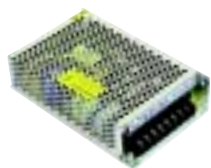
AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation $V_1: \pm 0.5\%, V_2, V_3: \pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range $V_1: \pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 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
	V	I		
HF50W-TF-A	5V	0.5~5.0A	80mV	68%
	12V	0.0~2.0A	100mV	
	-12V	0.2~1.5A	100mV	
HF50W-TF-B	5V	0.5~5.0A	80mV	69%
	15V	0.0~2.0A	100mV	
	-15V	0.0~1.0A	100mV	
HF50W-TF-C	5V	0.6~7.0A	80mV	68%
	12V	0.0~2.0A	100mV	
	-5V	0.4~1.5A	80mV	



55W~70W Triple Output

55W Triple Output Series

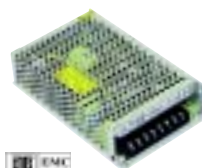


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
	V	I		
HF55W-T-A	5V	0.5~5.0A	80mV	68%
	12V	0.0~2.0A	100mV	
	-12V	0.2~1.5A	100mV	
HF55W-T-B	5V	0.5~5.0A	80mV	69%
	15V	0.0~2.0A	100mV	
	-15V	0.0~1.0A	100mV	
HF55W-T-C	5V	0.6~7.0A	80mV	68%
	12V	0.0~2.0A	100mV	
	-5V	0.0~1.5A	80mV	

70W Triple Output Series - with approval

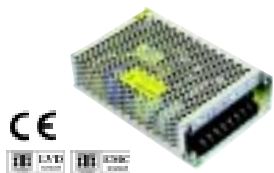


- AC input range selected by switch
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range V_1 : $\pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 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
	V	I		
HF70W-TF-A	5V	0.5~6.0A	80mV	71%
	12V	0.0~2.0A	100mV	
	-12V	0.2~1.5A	100mV	
HF70W-TF-B	5V	0.6~7.0A	80mV	72%
	15V	0.0~2.0A	100mV	
	-15V	0.0~1.0A	100mV	
HF70W-TF-C	5V	0.7~8.0A	80mV	70%
	12V	0.0~2.0A	100mV	
	-5V	0.0~1.5A	80mV	

60W Triple Output Series - with approval

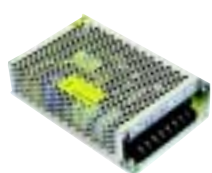


- Universal AC input / full range
- High reliability
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range V_1 : $\pm 5\%$ of rated output voltage
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 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
	V	I		
HF60W-TL-A	5V	0.5~6.0A	80mV	71%
	12V	0.0~2.0A	100mV	
	-12V	0.2~1.5A	100mV	
HF60W-TL-B	5V	0.6~7.0A	80mV	72%
	15V	0.0~2.0A	100mV	
	-15V	0.0~1.0A	100mV	
HF60W-TL-C	5V	0.7~8.0A	80mV	70%
	12V	0.0~2.0A	100mV	
	-5V	0.0~1.5A	80mV	

70W Triple Output Series

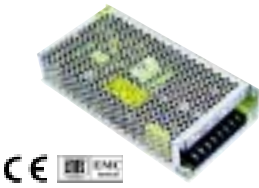


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (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 $-10^\circ\text{C} \sim +50^\circ\text{C}$
 Storage temperature $-20^\circ\text{C} \sim +85^\circ\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
	V	I		
HF70W-T-A	5V	0.5~6.0A	80mV	71%
	12V	0.0~2.0A	100mV	
	-12V	0.2~1.5A	100mV	
HF70W-T-B	5V	0.6~7.0A	80mV	72%
	15V	0.0~2.0A	100mV	
	-15V	0.0~1.0A	100mV	
HF70W-T-C	5V	0.7~8.0A	80mV	70%
	12V	0.0~2.0A	100mV	
	-5V	0.0~1.5A	80mV	

100W Triple Output Series - with approval

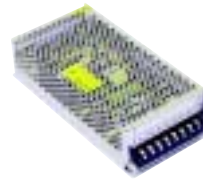


- AC input range selected by switch
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

AC input voltage range 85~132/ 170~264VAC selected by switch
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 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	80mV	73%
	12V	0.0~2.50A	100mV	
	-12V	0.0~1.50A	100mV	
HF100W-TF-B	5V	2.0~12.0A	80mV	74%
	15V	0.0~2.50A	100mV	
	-15V	0.0~1.50A	100mV	

150W Triple Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F615 199 x 98 x 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) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF150W-T-A	24V	1.0~5.0A	150mV	78%
	12V	0.0~2.5A	150mV	
	5V	0.0~2.0A	80mV	
HF150W-T-B	24V	1.0~5.0A	150mV	80%
	12V	0.0~2.5A	150mV	
	-12V	0.0~1.5A	120mV	

100W Triple Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F610 199 x 98 x 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) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Withstand voltage I/P -O/P: 1.5KVAC/1min
 I/P -F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-T-A	5V	2.0~12.0A	80mV	73%
	12V	0.0~2.50A	100mV	
	-12V	0.0~1.50A	100mV	
HF100W-T-B	5V	2.0~12.0A	80mV	74%
	15V	0.0~2.50A	100mV	
	-15V	0.0~1.50A	100mV	

For dual and triple output unit, it shows the output current range (min. ~ max.) of each output. But the total power shall be within the rated power.



300W Triple Output Series



- High reliability, low cost
- Built in fan speed control
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F630 241 x 124 x 65(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) + 0.5%
 Load regulation V₁: + 0.5%, V₂,V₃: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design refer to GB4943, UL60950, EN60950
 EMC standards design refer to GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		R&N	Efficiency
HF300W-T-A	24V	2.0~12.0A	150mV	84%
	12V	0.0~2.50A	120mV	
	12V	0.0~1.00A	100mV	
HF300W-T-B	27V	2.0~11.0A	150mV	84%
	12V	0.0~2.50A	100mV	
	5V	0.0~1.00A	100mV	

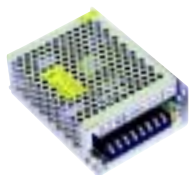
The products are designed according to international safety and EMC standards.





20W~100W Quad. Output

20W Quad. Output Series

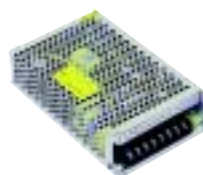


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂, V₃, V₄: + 3%
 Output voltage adjust range V₁: + 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-Q-A	5V	0.6~3.00A	100mV	64%
	12V	0~0.15A	120mV	
	12V	0~0.15A	120mV	
	12V	0~0.15A	120mV	
HF20W-Q-B	5V	0.6~3.00A	100mV	64%
	15V	0~0.10A	150mV	
	15V	0~0.10A	150mV	
	15V	0~0.15A	150mV	
HF20W-Q-C	5V	0.6~3.00A	100mV	62%
	5V	0~0.20A	100mV	
	15V	0~0.10A	150mV	
	15V	0~0.10A	150mV	

55W Quad. Output Series

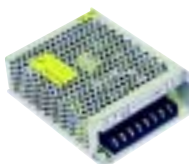


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂, V₃, V₄: + 3%
 Output voltage adjust range V₁: + 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF55W-Q-A	5V	1.4~7.0A	60mV	66%
	-5V	0.0~0.5A	150mV	
	12V	0.0~1.0A	100mV	
	-12V	0.0~0.5A	100mV	
HF55W-Q-B	5V	0.8~4.0A	60mV	65%
	24V	0.0~1.0A	150mV	
	12V	0.0~0.5A	100mV	
	-12V	0.0~0.5A	100mV	
HF55W-Q-C	5V	0.6~3.0A	60mV	66%
	24V	0.0~1.0A	150mV	
	15V	0.0~0.5A	100mV	
	-15V	0.0~0.5A	100mV	

35W Quad. Output Series



- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂, V₃, V₄: + 3%
 Output voltage adjust range V₁: + 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF35W-Q-A	5V	0.6~3.00A	80mV	65%
	12V	0.0~0.50A	100mV	
	-12V	0.0~0.50A	100mV	
	24V	0.0~0.35A	120mV	
HF35W-Q-B	5V	0.6~3.00A	80mV	65%
	15V	0.0~0.50A	100mV	
	-15V	0.0~0.50A	100mV	
	12V	0.0~0.35A	100mV	
HF35W-Q-C	5V	0.8~4.00A	80mV	64%
	5V	0.0~0.50A	80mV	
	12V	0.0~0.50A	100mV	
	-12V	0.0~0.35A	100mV	

100W Quad. Output Series

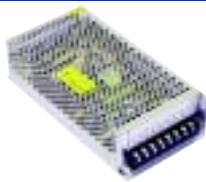


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

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) + 0.5%
 Load regulation V₁: + 0.5%, V₂, V₃, V₄: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF100W-Q-A	5V	1.2~6.0A	100mV	82%
	24V	0~2.0A	200mV	
	15V	0~1.0A	150mV	
	-15V	0~0.5A	150mV	
HF100W-Q-B	5V	1.2~6.0A	100mV	82%
	24V	0~2.0A	200mV	
	12V	0~1.0A	120mV	
	-12V	0~0.5A	120mV	

150W Quad. Output Series

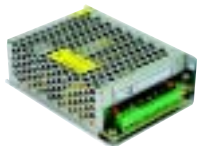


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F615 199 x 98 x 50(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂, V₃, V₄: + 3%
 Output voltage adjust range V₁: + 5% of rated output voltage
 Output overload protection 110~130%
 Withstand voltage I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min
 O/P-F/G: 0.5KVAC/1min
 Rise, Hold up time 50ms, 20ms@full load (typical)
 Operating temperature -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF150W-Q-A	36V	0.5~2.5A	200mV	84%
	-24V	0~0.5A	200mV	
	17V	0~1.0A	150mV	
	5V	0~1.0A	100mV	
HF150W-Q-B	5V	1.6~8.0A	100mV	82%
	12V	0~2.0A	150mV	
	24V	0~2.0A	200mV	
	-12V	0~2.0A	150mV	
HF150W-Q-C	5V	1.2~6.0A	100mV	82%
	15V	0~3.0A	150mV	
	24V	0~2.0A	200mV	
	-15V	0~2.0A	150mV	

20W Quin. Output Series

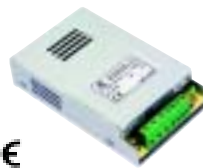


- High reliability, low cost
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- V1 is isolated from the other outputs
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range 170~264VAC (210~370VDC)
 Inrush current cold start, 30A/230V
 Input leakage current 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂, V₃, V₄, V₅: + 3%
 Output voltage adjust range V₁: + 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-M-A	5V	0.4~2.00A	80mV	62%
	20V	0~0.10A	150mV	
	20V	0~0.10A	150mV	
	20V	0~0.15A	150mV	
	20V	0~0.15A	150mV	
HF20W-M-B	5V	0.4~2.00A	80mV	62%
	18V	0~0.15A	120mV	
	18V	0~0.15A	120mV	
	18V	0~0.15A	120mV	
	18V	0~0.15A	120mV	

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
- F6025M 120 x 75 x 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 0.5mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 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

Model	DC Output		Load regul.	R&N	Efficiency
HF25W-SML-5	5V	5.0A	0.5%	60mV	72%
HF25W-SML-12	12V	2.1A	0.5%	100mV	76%
HF25W-SML-24	24V	1.1A	0.5%	100mV	80%
HF25W-SML-48	48V	0.5A	0.5%	200mV	81%

* 3~48VDC output all available.

60W Single Output M1 Series



- Downsized design, 30mm height
- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F606M 145 x 87 x 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 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 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

Model	DC Output		Load regul.	R&N	Efficiency
HF60W-SML-5	5V	12.0A	0.5%	80mV	70%
HF60W-SML-12	12V	5.0A	0.5%	100mV	72%
HF60W-SML-15	15V	4.0A	0.5%	120mV	74%
HF60W-SML-24	24V	2.5A	0.5%	150mV	78%
HF60W-SML-48	48V	1.2A	0.5%	200mV	83%

* 3~48VDC output all available.



35W 1~3 Output M1 Series



- Slim design, high reliability
- V1 is isolated from the other outputs
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F6035M 143 x 58 x 41(mm)

AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 40A/230V
Input leakage current	0.5mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation	V ₁ : + 1%
	V ₂ , V ₃ : + 6%
Output voltage adjust range	single output: + 10%, multi-output: V ₁ : + 5%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF35W-SM-5	5V 7.0A	0.5%	100mV	70%
HF35W-SM-12	12V 3.0A	0.5%	120mV	72%
HF35W-SM-24	24V 1.5A	0.5%	150mV	74%
HF35W-SM-48	48V 0.7A	0.5%	200mV	76%

* 3~48VDC output all available.

Dual Output

Model	DC Output	R&N	Efficiency
HF35W-DM-A	5V 1~5.0A	100mV	68%
	5V 0~2.0A	100mV	
HF35W-DM-B	5V 1~5.0A	100mV	69%
	12V 0~1.0A	120mV	
HF35W-DM-C	5V 0.8~4.0A	100mV	70%
	15V 0~1.0A	150mV	

Triple Output

Model	DC Output	R&N	Efficiency
HF35W-TM-A	5V 0.7~3.5A	100mV	68%
	12V 0~1.0A	120mV	
	-12V 0~0.5A	120mV	
HF35W-TM-B	5V 0.6~3.0A	100mV	70%
	15V 0~1.0A	150mV	
	-15V 0~0.5A	150mV	

Over 40 product series have acquired UL,TUV,CB,CE approval, and more are underway.



CE Certificate

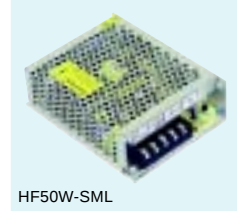


TUV Certificate

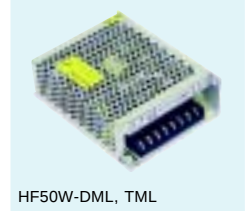


CB Certificate

50W 1~3 Output M1 Series



HF50W-SML



HF50W-DML, TML

- Compact size, high reliability
- Universal AC input / full range
- 100% full load burn-in test
- 5 years limited warranty
- V1 is isolated from the other outputs
- Protections: overload/ over voltage/ short circuit
- F603 129 x 98 x 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Load regulation	V ₁ : + 1%
	V ₂ , V ₃ : + 6%
Output voltage adjust range	single output: + 10%, multi-output: V ₁ : + 5%
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classB
	EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SML-5	5V 10.0A	0.5%	100mV	70%
HF50W-SML-12	12V 4.2A	0.5%	120mV	72%
HF50W-SML-15	15V 3.4A	0.5%	120mV	74%
HF50W-SML-24	24V 2.1A	0.5%	150mV	76%
HF50W-SML-48	48V 1.0A	0.5%	150mV	81%

* 3~48VDC output all available.

Dual Output

Model	DC Output	R&N	Efficiency
HF50W-DML-A	5V 1.0~6.0A	100mV	71%
	12V 0.3~3.0A	120mV	
HF50W-DML-B	5V 1.0~6.0A	100mV	72%
	24V 0.2~2.0A	150mV	
HF50W-DML-C	12V 0.4~2.0A	120mV	74%
	-12V 0.1~2.0A	150mV	

Triple Output

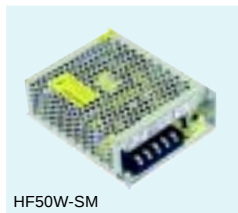
Model	DC Output	R&N	Efficiency
HF50W-TML-A	5V 0.6~5.0A	100mV	70%
	12V 0.1~1.2A	120mV	
	-12V 0.1~0.7A	120mV	
HF50W-TML-B	5V 0.6~5.0A	100mV	70%
	15V 0.1~0.8A	150mV	
	-15V 0.1~0.5A	150mV	
HF50W-TML-C	5V 0.6~5.0A	100mV	67%
	12V 0.1~1.2A	120mV	
	-5V 0.2~1.0A	100mV	



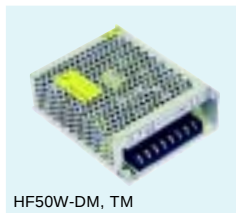
40W~50W M1 Series / 1000W Parallel

50W 1~3 Output M1 Series

- Compact size, high reliability
- Built-in EMI filter
- 100% full load burn-in test
- 5 years limited warranty
- V1 is isolated from the other outputs
- Protections: overload/ short circuit
- F603 129 x 98 x 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)	+ 0.5%
Load regulation	V ₁ : + 1% V ₂ , V ₃ : + 6%
Output voltage adjust range	single output: + 10%, multi-output: V ₁ : + 5%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-SM-5	5V	10.0A	0.5%	100mV	70%
HF50W-SM-12	12V	4.2A	0.5%	120mV	72%
HF50W-SM-15	15V	3.4A	0.5%	120mV	74%
HF50W-SM-24	24V	2.1A	0.5%	150mV	76%
HF50W-SM-48	48V	1.0A	0.5%	150mV	81%

* 3~48VDC output all available.

Dual Output

Model	DC Output		R&N	Efficiency
HF50W-DM-A	5V	1.0~6.0A	100mV	71%
	12V	0.3~3.0A	120mV	
HF50W-DM-B	5V	1.0~6.0A	100mV	72%
	24V	0.2~2.0A	150mV	
HF50W-DM-C	12V	0.4~2.0A	120mV	74%
	-12V	0.1~2.0A	150mV	
HF50W-DM-D	27V	0.1~1.5A	150mV	76%
	27V	0.1~1.0A	200mV	

Triple Output

Model	DC Output		R&N	Efficiency
HF50W-TM-A	5V	0.6~5.0A	100mV	70%
	12V	0.1~1.2A	120mV	
	-12V	0.1~0.7A	120mV	
HF50W-TM-B	5V	0.6~5.0A	100mV	70%
	15V	0.1~0.8A	150mV	
	-15V	0.1~0.5A	150mV	
HF50W-TM-C	5V	0.6~5.0A	100mV	67%
	12V	0.1~1.2A	120mV	
	-5V	0.2~1.0A	100mV	

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 x 63.5 x 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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

Model	DC Output		Load regul.	R&N	Efficiency
HF40W-SML-5	5V	8.0A	1.0%	80mV	70%
HF40W-SML-12	12V	3.3A	0.5%	100mV	71%
HF40W-SML-15	15V	2.7A	0.5%	120mV	72%
HF40W-SML-24	24V	1.8A	0.5%	150mV	74%
HF40W-SML-48	48V	0.8A	0.5%	200mV	76%

* 3~48VDC output all available.

1000W Single Output with Parallel Function



- Built-in parallel operation function
- Built-in remote sense
- Remote ON/OFF control
- Built-in power good signal output
- Can adjust from 20~100% output voltage by external control 1~5VDC
- Built-in fan speed control
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F6100M 253 x 160 x 69(mm)

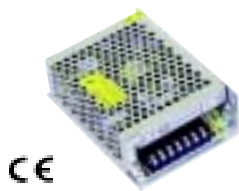
AC input voltage range	170~264VAC (210~370VDC)
Input frequency	47~63Hz
Inrush current	60A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA
Cooling method	fan

Model	DC Output		Load regul.	R&N	Efficiency
HF1000W-SN-12	12V	84A	1.0%	150mV	82%
HF1000W-SN-24	24V	42A	0.5%	200mV	84%
HF1000W-SN-28	28V	35A	0.5%	200mV	84%
HF1000W-SN-48	48V	21A	0.5%	240mV	86%



20W~55W Battery Charger

20W with Battery Charging Function

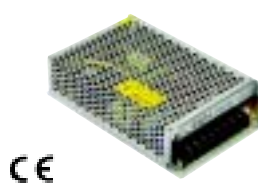


- To charge lead acid or lithium battery
- Auto switch when power off (UPS function)
- AC input failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 15A/115V, 30A/230V
Input leakage current	0.5mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	V ₁ : + 5% of rated output voltage V ₂ : unadjustable
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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-SB-12	12V	1.5A	100mV	72%
	13.8V	0.5A(Charger)		
HF20W-SB-24	24V	0.7A	150mV	74%
	27.1V	0.2A(Charger)		

55W with Battery Charging Function

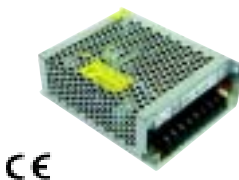


- To charge lead acid or lithium battery
- Auto switch when power off (UPS function)
- AC input failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	V ₁ : + 5% of rated output voltage V ₂ : unadjustable
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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
HF55W-SB-13.8	13.8V	4.0A	100mV	71%
	13.4V	0.23A(Charger)		
HF55W-SB-27.6	27.6V	2.0A	150mV	74%
	26.5V	0.16A(Charger)		

40W with Battery Charging Function

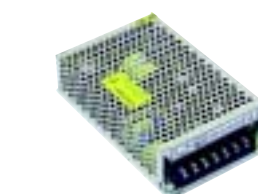


- To charge lead acid or lithium battery
- Auto switch when power off (UPS function)
- AC input failure signal
- Battery low signal
- Approvals: CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	V ₁ : + 5% of rated output voltage V ₂ : unadjustable
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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-SB-13.8	13.8V	2.9A	100mV	70%
	13.4V	0.23A(Charger)		
HF40W-SB-27.6	27.6V	1.4A	150mV	73%
	26.5V	0.16A(Charger)		

55W Dual Output for Battery Charging



- High reliability, low cost
- To charge lead acid or lithium battery
- Auto switch when power off (UPS function)
- Charging current limited
- Battery low protection
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 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)	+ 0.5%
Output voltage adjust range	V ₁ : + 5% of rated output voltage V ₂ : unadjustable
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF55W-D-Z	12.8V	4.0A	100mV	70%
	13.8V	0.2A(Charger)		



CE



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75W Single Output DIN Rail Series



- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, compact design
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F6075DR 55.6 x 100.6 x 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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/ 6.35mm pitch 5P/ 6.35mm pitch, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF75W-SDR-12	12V 6.3A	0.5%	100mV	76%
HF75W-SDR-24	24V 3.2A	0.5%	150mV	80%
HF75W-SDR-48	48V 1.6A	0.5%	240mV	81%

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
- F612DRL 50 x 116 x 120.2(mm)

AC input voltage range	85~264VAC(120~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, delay shutdown
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF120W-SDR-12	12V 10.0A	0.5%	100mV	80%
HF120W-SDR-24	24V 5.0A	0.5%	120mV	84%
HF120W-SDR-48	48V 2.5A	0.5%	150mV	85%

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
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F612DRF 45.4 x 108.4 x 114(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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
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, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF120W-SFDR-12	12V 10.0A	0.5%	100mV	82%
HF120W-SFDR-24	24V 5.0A	0.5%	120mV	85%
HF120W-SFDR-48	48V 2.5A	0.5%	150mV	86%

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
- F615DR 108.4 x 83.6 x 109(mm)

AC input voltage range	85~132/ 170~264VAC selected by jumper
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	110~130%, delay shutdown
Output over voltage protection	115~150%
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	-10℃ ~+50℃
Storage temperature	-20℃ ~+85℃
Safety standards	UL508, UL60950, EN60950 approved
EMC standards	meet EN55022 classB, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/ 6.35mm pitch 4P/ 6.35mm pitch, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SDR-12	12V 12.5A	0.5%	120mV	82%
HF150W-SDR-13.8	13.8V 11.0A	0.5%	150mV	83%
HF150W-SDR-15	15V 10.0A	0.5%	150mV	83%
HF150W-SDR-24	24V 6.3A	0.5%	150mV	85%
HF150W-SDR-48	48V 3.1A	0.5%	200mV	86%



240W Din Rail / 60W~150W Waterproof

240W Single Output DIN Rail - with PFC



New



- 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 94%
- ZCS technology to reduce power dissipation
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F624DR 63.2 x 123.1 x 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	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, delay shutdown
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	meet UL508, UL60950, EN60950
EMC standards	meet EN55022 classB, EN55024
Cooling method	EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 convection

Model	DC Output	Load regul.	R&N	Efficiency
HF240W-SDR-24	24V 10.0A	0.5%	100mV	94%
HF240W-SDR-48	48V 5.0A	0.5%	120mV	94%

150W Single Output Waterproof Series



- High reliability
- IP67 design
- Suitable for wet or damp locations
- Designed for outdoor or indoor applications
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615SLD 196 x 95 x 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	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
Output over temp. protection	power derated automatically when over temperature
Short circuit protection	no 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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design refer to GB4943, UL60950, EN60950
EMC standards	design refer to GB9254, EN55022 classA
Cooling method	convection

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SI-12	12V 12.5A	0.5%	120mV	82%
HF150W-SI-15	15V 10.0A	0.5%	150mV	83%
HF150W-SI-24	24V 6.5A	0.5%	150mV	85%
HF150W-SI-27	27V 5.6A	0.5%	150mV	85%
HF150W-SI-36	36V 4.2A	0.5%	200mV	86%
HF150W-SI-48	48V 3.1A	0.5%	200mV	86%

60W Single Output Waterproof Series



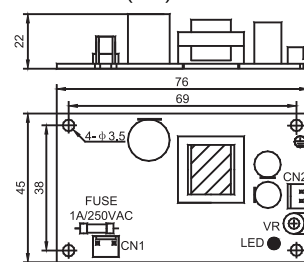
- Universal AC input / full range
- IP66 design
- Suitable for outdoor or damp locations
- PF>0.90@230VAC
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F606SLD 175 x 63 x 40(mm)

AC input voltage range	90~264VAC (127~370VDC)
Input frequency	47~63Hz
Inrush current	cold start, 20A/115V, 40A/230V
Input leakage current	0.7mA/ 230VAC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet UL879, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA, EN61000-3-2,3
Cooling method	convection

Model	DC Output	Load regul.	R&N	Efficiency
HF60W-SLD-12	12V 5.0A	0.5%	120mV	80%
HF60W-SLD-15	15V 4.0A	0.5%	150mV	80%
HF60W-SLD-24	24V 2.5A	0.5%	150mV	81%
HF60W-SLD-27	27V 2.3A	0.5%	150mV	81%
HF60W-SLD-36	36V 1.7A	0.5%	200mV	82%
HF60W-SLD-48	48V 1.3A	0.5%	240mV	82%

5W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 76 x 45 x 22(mm)



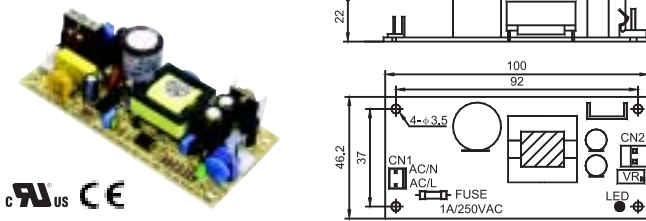
AC input voltage range	85~264VAC (120~370VDC)
Inrush current	cold start, 15A/115V, 30A/230V
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%
Over temp. protection	IC, Tj: 135 ℃, 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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classB, EN61000
Connection	2P, 2P/ 2.54mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF5W-SPL-5	5V 1.0A	0.5%	50mV	65%
HF5W-SPL-12	12V 0.4A	0.5%	80mV	70%
HF5W-SPL-24	24V 0.2A	0.5%	150mV	72%
HF5W-SPL-48	48V 0.1A	0.5%	200mV	73%

* 3~48VDC output all available.

15W Single Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- 100% full load burn-in test
- Approvals: UL/ CUL/ CE
- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 100 x 46.2 x 22(mm)



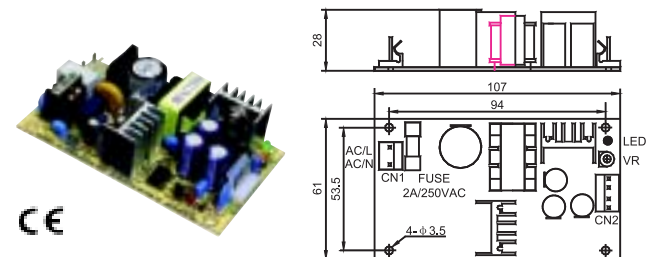
AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 15A/115V, 30A/230V
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 Over temp. protection IC, Tj: 135℃, 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards GB4943, UL60950, EN60950
 EMC standards GB9254, EN55022 classB, EN61000
 Connection 2P/ 2.54mm, 2P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF15W-SPL-5	5V 3.0A	0.5%	60mV	68%
HF15W-SPL-12	12V 1.3A	0.5%	80mV	74%
HF15W-SPL-24	24V 0.65A	0.5%	150mV	76%
HF15W-SPL-48	48V 0.32A	0.5%	200mV	77%

* 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
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 107 x 61 x 28(mm)



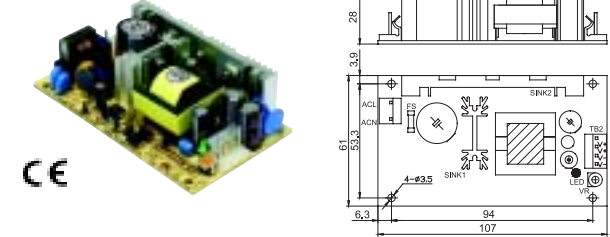
AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 Over temp. protection IC, Tj: 135℃, 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 50 ms, 20ms@full load (typical)
 Operating temperature -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 2P, 4P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF25W-SPL-5	5V 5.0A	0.5%	80mV	70%
HF25W-SPL-12	12V 2.1A	0.5%	100mV	74%
HF25W-SPL-24	24V 1.1A	0.5%	150mV	80%
HF25W-SPL-48	48V 0.5A	0.5%	200mV	81%

* 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
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 107 x 61 x 28(mm)



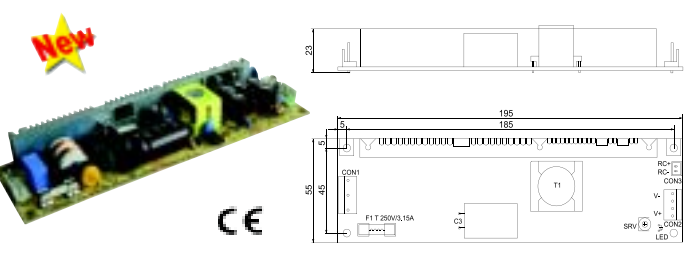
AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 Over temp. protection IC, Tj: 135℃, 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 2P, 4P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF35W-SPL-5	5V 7.0A	0.5%	80mV	70%
HF35W-SPL-12	12V 2.9A	0.5%	100mV	74%
HF35W-SPL-24	24V 1.5A	0.5%	150mV	80%
HF35W-SPL-48	48V 0.7A	0.5%	200mV	81%

* 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
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 195 x 55 x 23(mm)



AC input voltage range 90~264VAC (127~370VDC)
 Inrush current cold start, 40A/230V
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 5P, 4P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SPL-5	5V 10.0A	0.5%	80mV	81%
HF50W-SPL-12	12V 4.2A	0.5%	100mV	82%
HF50W-SPL-24	24V 2.1A	0.5%	150mV	85%
HF50W-SPL-48	48V 1.1A	0.5%	200mV	86%

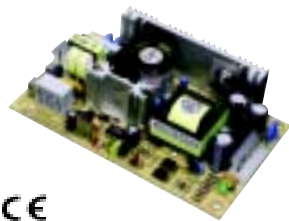
* 3~48VDC output all available.



45W~100W Open Frame

45W 1~3 Output Open Frame Series

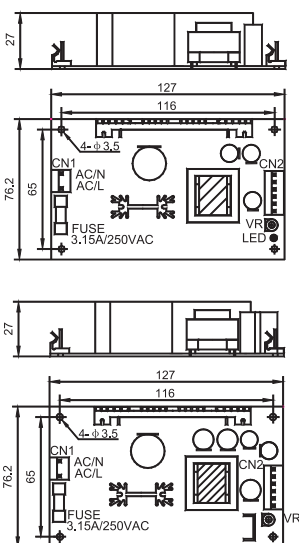
- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 127 x 76.2 x 27(mm)



CE



CE



AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V_1 : + 1%, V_2, V_3 : + 6%
 Output voltage adjust range single output: + 10%, multi-output: V_1 : + 5%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 2P, 4P/ 3.96mm pitch, 1~2 outputs
 2P, 6P/ 3.96mm pitch, 3 outputs

Single Output

Model	DC Output		Load regul.	R&N	Efficiency
HF45W-SPL-5	5V	8.0A	0.5%	80mV	76%
HF45W-SPL-12	12V	3.7A	0.5%	100mV	79%
HF45W-SPL-24	24V	1.9A	0.5%	120mV	82%
HF45W-SPL-48	48V	1.0A	0.5%	150mV	83%

* 3~48VDC output all available.

Dual Output

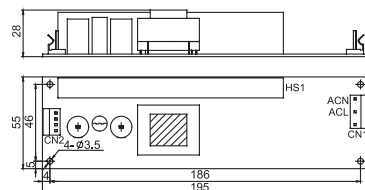
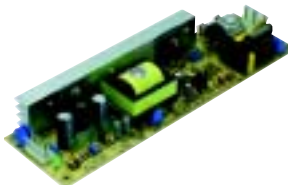
Model	DC Output		R&N	Efficiency
HF45W-DPL-A	5V	0.4~5.0A	50mV	77%
	12V	0.2~2.5A	120mV	
HF45W-DPL-B	5V	0.4~5.0A	50mV	78%
	24V	0.2~1.8A	150mV	

Triple Output

Model	DC Output		R&N	Efficiency
HF45W-TPL-A	5V	0.4~5.0A	50mV	75%
	12V	0.2~2.5A	120mV	
	-5V	0.1~0.5A	50mV	
HF45W-TPL-B	5V	0.4~5.0A	50mV	75%
	12V	0.2~2.5A	120mV	
	-12V	0.1~0.5A	100mV	
HF45W-TPL-C	5V	0.4~5.0A	50mV	75%
	15V	0.2~2.3A	120mV	
	-15V	0.1~0.5A	100mV	

60W Single Output Open Frame Series

- High reliability, low cost
- Miniature PCB structure
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ 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) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Connection 2P, 4P/ 3.96mm pitch

Model	DC Output		Load regul.	R&N	Efficiency
HF60W-SP-12	12V	5.0A	0.5%	100mV	78%
HF60W-SP-15	15V	4.0A	0.5%	100mV	79%
HF60W-SP-24	24V	2.5A	0.5%	120mV	82%
HF60W-SP-48	48V	1.3A	0.5%	180mV	84%

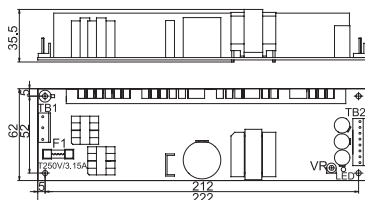
* 12~48VDC output all available.

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



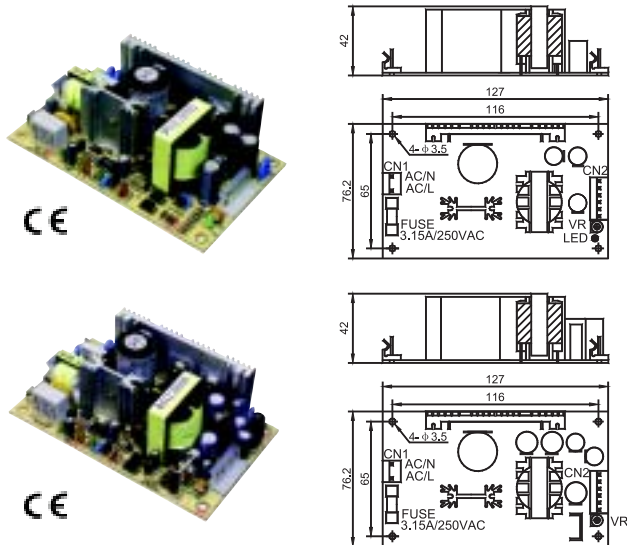
AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%, current limiting, auto recovery
 Output over voltage protection 115~150%
 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 -10 ℃ ~+50 ℃
 Storage temperature -20 ℃ ~+85 ℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Cooling method convection
 Connection 5P, 8P/ 3.96mm pitch

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SPC-3.3	3.3V	20.0A	0.5%	100mV	69%
HF100W-SPC-5	5V	20.0A	0.5%	100mV	75%
HF100W-SPC-7.5	7.5V	13.5A	0.5%	100mV	76%
HF100W-SPC-12	12V	8.5A	0.5%	100mV	79%
HF100W-SPC-15	15V	6.7A	0.5%	100mV	80%
HF100W-SPC-24	24V	4.2A	0.5%	150mV	83%
HF100W-SPC-48	48V	2.1A	0.5%	250mV	83%

* 3~48VDC output all available.

65W 1~3 Output Open Frame Series

- Universal AC input / full range
- High reliability
- Miniature PCB structure
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 5 years limited warranty
- 127 x 76.2 x 42(mm)



AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) + 0.5%
 Load regulation V_1 : + 1%, V_2, V_3 : + 6%
 Output voltage adjust range single output: + 10%, multi-output: V_1 : + 5%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 2P, 4P/ 3.96mm pitch, 1~2 outputs
 2P, 6P/ 3.96mm pitch, 3 outputs

Single Output

Model	DC Output	Load regul.	R&N	Efficiency
HF65W-SPL-5	5V 10.0A	0.5%	100mV	76%
HF65W-SPL-12	12V 5.2A	0.5%	100mV	80%
HF65W-SPL-24	24V 2.7A	0.5%	100mV	82%
HF65W-SPL-48	48V 1.35A	0.5%	100mV	83%

* 3~48VDC output all available.

Dual Output

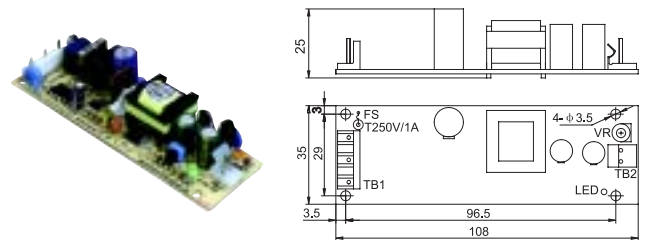
Model	DC Output	R&N	Efficiency
HF65W-DPL-A	5V 0.4~7.0A	50mV	78%
	12V 0.2~3.2A	120mV	
HF65W-DPL-B	5V 0.4~6.0A	50mV	81%
	24V 0.2~2.6A	150mV	

Triple Output

Model	DC Output	R&N	Efficiency
HF65W-TPL-A	5V 0.4~7.0A	50mV	76%
	12V 0.2~3.2A	120mV	
	-5V 0.2~0.7A	50mV	
HF65W-TPL-B	5V 0.4~7.0A	50mV	77%
	12V 0.2~3.2A	120mV	
	-12V 0.2~0.7A	100mV	
HF65W-TPL-C	5V 0.4~7.0A	50mV	77%
	15V 0.2~2.6A	120mV	
	-15V 0.2~0.7A	100mV	

5W DC/DC Open Frame for Telecom

- High reliability
- Compact size
- Miniature PCB structure
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit/ over voltage (option)
- Free air cooling convection
- 5 years limited warranty
- 108 x 35 x 25(mm)



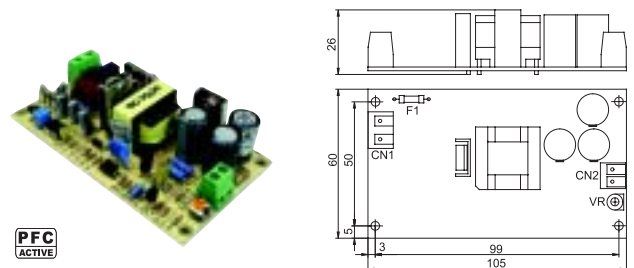
DC input voltage range 24(18~36)VDC, 48(36~72)VDC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150% (option)
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance 100MΩ @500VDC
 Operating temperature -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection
 Connection 2P/ 3.96mm, 3P/ 6.87mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF5W-SPD**-5	5V 1.0A	0.5%	80mV	70%
HF5W-SPD**-12	12V 0.4A	0.5%	120mV	72%
HF5W-SPD**-24	24V 0.2A	0.5%	150mV	76%

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

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 26(mm)



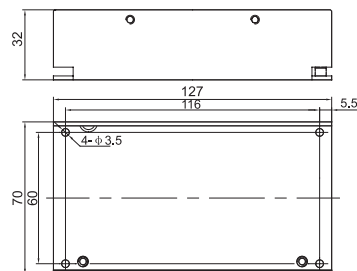
Model no. HF25W-SPGL-24
 AC input voltage range 85~264VAC (120~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 20A/115V, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Efficiency 80%
 Output voltage 24VDC, fixed
 Output voltage adjust range + 10%
 Output current 0~1A, constant current limiting
 Output current limiting range 100~130%
 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards design meet GB7000.1
 Cooling method convection
 Connection 2P/ 7.5mm pitch
 2P/ 5mm pitch, terminal block



50W~150W Special Open Frame

50~60W DC/DC for Vehicle LCD

- Wide DC input range
- High reliability, low cost
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- 127 x 70 x 32(mm)



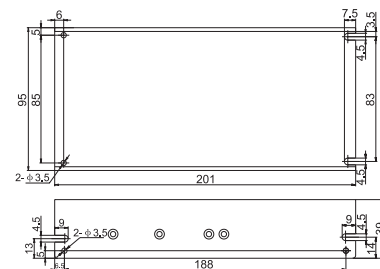
DC input voltage range	24(9~36)VDC, 48(36~72)VDC
Line regulation	+ 1%
Output voltage tolerance	+ 3%
Output overload protection	115~180% at min. Vin
Withstand voltage	I/P -O/P: 1.0KVDC/1min I/P -F/G: 1.0KVDC/1min O/P-F/G: 0.5KVDC/1min
Rise time	50ms@full load (typical)
Operating temperature	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design refer to LVD
Cooling method	convection
Connection	4P, 6P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF50W-SUD**5	5V 10.0A	1.0%	80mV	72%
HF50W-SUD**12	12V 3.7A	1.0%	100mV	76%
HF50W-SUD**24	24V 2.1A	1.0%	150mV	78%
HF60W-SUD**5	5V 12.0A	1.0%	80mV	72%
HF60W-SUD**12	12V 5.0A	1.0%	100mV	76%

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

100W DC/DC U-Bracket Series

- High reliability
- Input over voltage protection
- Input below voltage protection
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- 201 x 95 x 39(mm)



DC input voltage range	12(10~18)VDC, 24(18~36)VDC
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%, auto recovery
Output over voltage protection	115~150%
Withstand voltage	I/P -O/P: 1.0KVDC/1min I/P -F/G: 1.0KVDC/1min O/P-F/G: 0.5KVDC/1min
Rise time	50ms@full load (typical)
Operating temperature	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design refer to LVD
Cooling method	convection
Connection	4P/ 9.5mm pitch 4P/ 9.5mm pitch, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-SUD**5	5V 20.0A	1.0%	80mV	80%
HF100W-SUD**12	12V 9.0A	0.5%	100mV	82%
HF100W-SUD**24	24V 4.5A	0.5%	150mV	85%

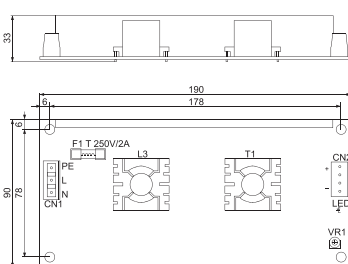
**means DC input voltage, such as 12, 24, etc.

85~120W Open Frame Series - with PFC

- High reliability
- PF>0.92@230VAC
- 100% full load burn-in test
- Free air cooling convection
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- 190 x 90 x 33(mm)



New

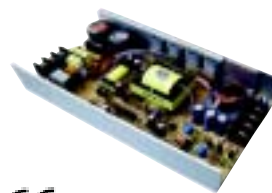


AC input voltage range	170~264VAC (210~370VDC)
Inrush current	cold start, 40A/230V
Line regulation (full load)	+ 0.5%
Output voltage adjust range	+ 10%
Output overload protection	105~150%, hiccup mode, auto recovery
Output over voltage protection	115~150%
Withstand voltage	I/P -O/P: 3.0KVAC/1min I/P -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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
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

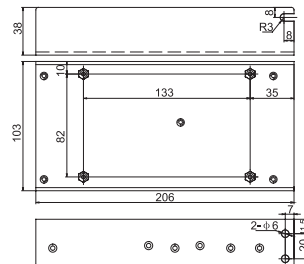
Model	DC Output	Load regul.	R&N	Efficiency
HF85W-SPC-36	36V 2.4A	0.5%	150mV	82%
HF120W-SPC-36	36V 3.3A	0.5%	150mV	84%

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	110~130%, power shutdown
Output over voltage protection	115~150%
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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	meet GB4943, UL60950, EN60950
EMC standards	meet GB9254, EN55022 classB, EN61000
Connection	3P, 4P/ 9.5mm pitch, terminal block

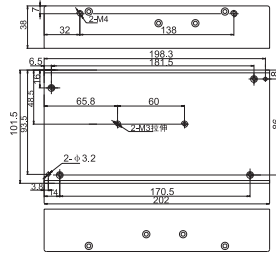
Model	DC Output	Load regul.	R&N	Efficiency
HF150W-SUF-5	5V 30.0A	0.5%	120mV	78%
HF150W-SUF-12	12V 12.5A	0.5%	120mV	82%
HF150W-SUF-15	15V 10.0A	0.5%	120mV	83%
HF150W-SUF-24	24V 6.5A	0.5%	150mV	85%
HF150W-SUF-48	48V 3.1A	0.5%	200mV	86%

* 3~48VDC output all available.

150W DC/DC for Bus Battery Charging

- High reliability
- V1 isolated from V2, V3
- V2, V3 common grounded
- 100% full load burn-in test

- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- 202 x 101.5 x 38(mm)



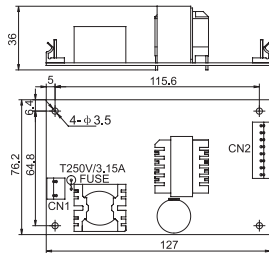
DC input voltage range 12(10~18)VDC, 24(18~36)VDC
 Line regulation V1: + 0.5%; V2: + 1.0%; V3: + 0.5%
 Output voltage adjust range V1: + 5% of rated output voltage
 Output overload protection 105~180%, auto recovery
 Output over voltage protection 115~150%
 Withstand voltage I/P-O/P: 1.0KVDC/1min; I/P-F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Operating temperature -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards design refer to LVD
 Cooling method convection
 Connection 2P/ 3.96mm pitch
 12P/ 4.2mm pitch, terminal block

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-TUD**-A	5V	0.8~4.0A	1.0%	100mV
	12V	0.3~3.0A	8.0%	120mV
	24V	0.0~3.0A	1.0%	150mV
HF150W-TUD**-B	5V	0.8~4.0A	1.0%	100mV
	12V	0.3~3.0A	8.0%	120mV
	12V	0.0~6.0A	1.0%	120mV

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

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 up to 90%
- 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)



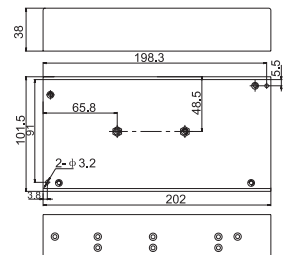
AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%, hiccup mode, auto recovery
 Output over voltage protection 115~150%
 Withstand voltage I/P-O/P: 3.0KVAC/1min; 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 3P, 8P/ 3.96mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF200W-SPC-5	5V	36.0A	0.5%	100mV
HF200W-SPC-12	12V	16.6A	0.5%	100mV
HF200W-SPC-24	24V	8.3A	0.5%	150mV
HF200W-SPC-48	48V	4.17A	0.5%	240mV

* 3~48VDC output all available.

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)

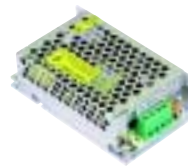


AC input voltage range 85~264VAC (120~370VDC)
 Inrush current cold start, 20A/115V, 40A/230V
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%, current limiting, auto recovery
 Output over voltage protection 115~150%
 Withstand voltage I/P-O/P: 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 -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards meet GB4943, UL60950, EN60950
 EMC standards meet GB9254, EN55022 classB, EN61000
 Connection 3P, 12P/ 5mm pitch

Model	DC Output	Load regul.	R&N	Efficiency
HF225W-SUC-5	5V	40.0A	1.0%	100mV
HF225W-SUC-12	12V	18.7A	0.5%	100mV
HF225W-SUC-15	15V	15.0A	0.5%	100mV
HF225W-SUC-24	24V	9.4A	0.5%	150mV
HF225W-SUC-48	48V	4.7A	0.5%	240mV

* 3~48VDC output all available.

10W DC/DC Series



- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F601 100 x 58 x 31(mm)

DC input voltage 12VDC, 24VDC, 48VDC, 90VDC, 110VDC
 Line regulation (full load) + 0.5%
 Load regulation V₁: + 0.5%, V₂: + 3% (with regulator);
 + 6% (without)
 Output voltage adjust range single output: + 10%, multi-output: V₁: + 5%
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance 100MΩ @500VDC
 Operating temperature -10℃ ~ +50℃
 Storage temperature -20℃ ~ +85℃
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output	R&N	Efficiency
HF10W-SD**-5	5V	2.0A	80mV
HF10W-SD**-12	12V	1.0A	120mV
HF10W-SD**-24	24V	0.5A	150mV
HF10W-DD**-A	5V	0.20~1.8A	60mV
	12V	0.10~0.5A	100mV
HF10W-DD**-B	5V	0.20~1.8A	60mV
	24V	0.05~0.3A	150mV

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

High reliability - Only international brand components are adopted for our key parts. Each unit is given 100% load burn-in test before delivery.





20W~50W DC/DC

20W DC/DC Series



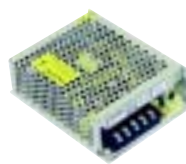
- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F602 111 x 78 x 36(mm)

DC input voltage 12VDC, 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range single output: $\pm 10\%$, multi-output: V_1 : $\pm 5\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^\circ C \sim +50^\circ C$
 Storage temperature $-20^\circ C \sim +85^\circ C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF20W-SD**-5	5V	4.0A	100mV	70%
HF20W-SD**-12	12V	2.0A	120mV	72%
HF20W-SD**-24	24V	1.0A	150mV	74%
HF20W-DD**-A	5V	0.4~3.0A	100mV	71%
	12V	0.0~1.0A	120mV	
HF20W-DD**-B	12V	0.2~1.2A	120mV	72%
	12V	0.0~0.8A	120mV	
HF20W-TD**-A	5V	0.3~2.5A	100mV	69%
	12V	0.1~1.0A	120mV	
HF20W-TD**-B	-12V	0.1~0.8A	120mV	70%
	5V	0.3~2.5A	100mV	
HF20W-TD**-B	15V	0.1~0.8A	150mV	70%
	-15V	0.1~0.8A	150mV	

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

40W DC/DC Series



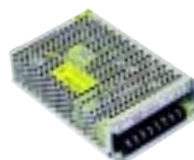
- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

DC input voltage 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range single output: $\pm 10\%$, multi-output: V_1 : $\pm 5\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^\circ C \sim +50^\circ C$
 Storage temperature $-20^\circ C \sim +85^\circ C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF40W-SD**-5	5V	8.0A	80mV	70%
HF40W-SD**-12	12V	3.3A	120mV	72%
HF40W-SD**-24	24V	1.6A	150mV	74%
HF40W-DD**-A	5V	0.5~4.0A	100mV	70%
	12V	0.0~2.0A	150mV	
HF40W-DD**-B	15V	0.2~2.0A	150mV	70%
	-15V	0.0~1.5A	150mV	
HF40W-TD**-A	5V	0.5~3.5A	100mV	67%
	12V	0.1~1.5A	150mV	
HF40W-TD**-A	-12V	0.1~1.0A	150mV	67%
	-12V	0.1~1.0A	150mV	

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

50W DC/DC Series



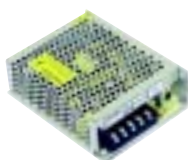
- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

DC input voltage 12VDC, 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range single output: $\pm 10\%$, multi-output: V_1 : $\pm 5\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^\circ C \sim +50^\circ C$
 Storage temperature $-20^\circ C \sim +85^\circ C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF50W-SD**-5	5V	10.0A	100mV	71%
HF50W-SD**-12	12V	4.2A	120mV	72%
HF50W-SD**-24	24V	2.1A	150mV	74%
HF50W-DD**-A	5V	0.5~6.0A	80mV	70%
	12V	0.2~2.5A	120mV	
HF50W-DD**-B	15V	0.2~2.5A	100mV	71%
	-15V	0.2~2.0A	120mV	
HF50W-TD**-A	5V	0.5~5.0A	80mV	70%
	12V	0.2~2.0A	120mV	
HF50W-TD**-A	-12V	0.2~1.5A	120mV	70%
	-12V	0.2~1.5A	120mV	

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

30W DC/DC Series



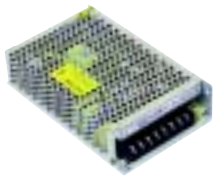
- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

DC input voltage 12VDC, 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Load regulation V_1 : $\pm 0.5\%$, V_2, V_3 : $\pm 3\%$ (with regulators);
 $\pm 6\%$ (without)
 Output voltage adjust range single output: $\pm 10\%$, multi-output: V_1 : $\pm 5\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^\circ C \sim +50^\circ C$
 Storage temperature $-20^\circ C \sim +85^\circ C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		R&N	Efficiency
HF30W-SD**-12	12V	2.5A	120mV	72%
HF30W-SD**-24	24V	1.3A	150mV	74%
HF30W-DD**-A	5V	0.5~4.0A	100mV	70%
	12V	0.0~1.5A	150mV	
HF30W-DD**-B	15V	0.2~1.5A	150mV	70%
	-15V	0.0~1.0A	150mV	
HF30W-TD**-A	5V	0.5~3.5A	100mV	67%
	12V	0.1~1.2A	150mV	
HF30W-TD**-A	-12V	0.1~0.8A	150mV	67%
	-12V	0.1~0.8A	150mV	

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

60W DC/DC Series



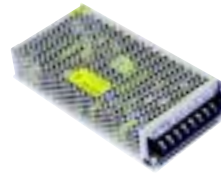
- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

DC input voltage 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^{\circ}C \sim +50^{\circ}C$
 Storage temperature $-20^{\circ}C \sim +85^{\circ}C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF60W-SD**-5	5V	12.0A	0.5%	100mV	70%
HF60W-SD**-12	12V	5.0A	0.5%	120mV	72%
HF60W-SD**-24	24V	2.5A	0.5%	150mV	74%
HF60W-SD**-48	48V	1.3A	0.5%	200mV	75%

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

100W DC/DC Series



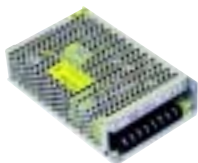
- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

DC input voltage 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^{\circ}C \sim +50^{\circ}C$
 Storage temperature $-20^{\circ}C \sim +85^{\circ}C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SD**-5	5V	20.0A	0.5%	100mV	74%
HF100W-SD**-12	12V	8.5A	0.5%	120mV	75%
HF100W-SD**-24	24V	4.2A	0.5%	150mV	78%
HF100W-SD**-48	48V	2.1A	0.5%	200mV	79%

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

70W DC/DC Series



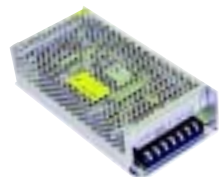
- High reliability
- Built-in EMI filter
- Protections: overload/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)
- F606 146 x 81 x 38(mm)

DC input voltage 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^{\circ}C \sim +50^{\circ}C$
 Storage temperature $-20^{\circ}C \sim +85^{\circ}C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF70W-SD**-12	12V	6.0A	0.5%	120mV	72%
HF70W-SD**-15	15V	4.7A	0.5%	150mV	72%
HF70W-SD**-24	24V	3.0A	0.5%	150mV	76%
HF70W-SD**-48	48V	1.5A	0.5%	200mV	82%

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

150W DC/DC Series



- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F615 199 x 98 x 50(mm)

DC input voltage 24VDC, 48VDC, 110VDC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $\pm 10\%$
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance $\geq 100M \Omega @ 500VDC$
 Operating temperature $-10^{\circ}C \sim +50^{\circ}C$
 Storage temperature $-20^{\circ}C \sim +85^{\circ}C$
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SD**-5	5V	30.0A	0.5%	100mV	70%
HF150W-SD**-12	12V	12.5A	0.5%	120mV	72%
HF150W-SD**-24	24V	6.3A	0.5%	150mV	76%
HF150W-SD**-48	48V	3.1A	0.5%	200mV	82%

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



ISO9001 Certificate



RoHS Certificate



RoHS Certificate

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



The leading manufacturer in China of industrial switching power supplies.



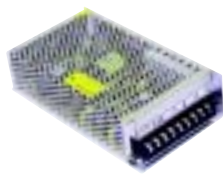
Reliable Products & Best Services
 We have full confidence to be your trustworthy power partner.





200W~1000W DC/DC

200W DC/DC Series



- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ short circuit
- 5 years limited warranty
- F620 200 x 110 x 50(mm)

DC input voltage 24VDC, 48VDC, 110VDC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance 100M Ω @500VDC
 Operating temperature -10 $^{\circ}$ C ~+50 $^{\circ}$ C
 Storage temperature -20 $^{\circ}$ C ~+85 $^{\circ}$ C
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-SD**-5	5V	35.0A	0.5%	150mV	72%
HF200W-SD**-12	12V	16.7A	0.5%	180mV	76%
HF200W-SD**-24	24V	8.4A	0.5%	200mV	80%
HF200W-SD**-48	48V	4.2A	0.5%	200mV	84%

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

350~500W DC/DC Mini-size Series



- 2:1 wide input range
- Forced air cooling by built-in fan
- Built-in remote sense (option)
- Remote ON/OFF control (option)
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F632C 215 x 115 x 50(mm)

Line regulation (full load) + 0.5%
 Load regulation + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance 100M Ω @500VDC
 Operating temperature -10 $^{\circ}$ C ~+50 $^{\circ}$ C
 Storage temperature -20 $^{\circ}$ C ~+85 $^{\circ}$ C
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method fan

Model	DC Input	DC Output		R&N	Efficiency
HF350W-SMD**-12	19~36V	12V	27.5A	120mV	80%
HF350W-SMD**-24	19~36V	24V	14.6A	150mV	80%
HF350W-SMD**-12	36~72V	12V	27.5A	120mV	81%
HF350W-SMD**-24	36~72V	24V	14.6A	150mV	81%
HF350W-SMD**-12	72~144V	12V	29.2A	120mV	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%

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

500~1000W DC/DC Series



- High reliability
- Built-in EMI filter
- 100% full load burn-in test
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F650 250 x 160 x 87(mm)

DC input voltage 48VDC, 110VDC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 105~150%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance 100M Ω @500VDC
 Operating temperature -10 $^{\circ}$ C ~+50 $^{\circ}$ C
 Storage temperature -20 $^{\circ}$ C ~+85 $^{\circ}$ C
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method fan

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-SD**-12	12V	25.0A	0.5%	120mV	82%
HF300W-SD**-15	15V	20.0A	0.5%	150mV	83%
HF300W-SD**-24	24V	12.5A	0.5%	200mV	85%
HF300W-SD**-48	48V	6.3A	0.5%	200mV	88%

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

DC input voltage 48VDC, 110VDC
 Line regulation (full load) + 0.5%
 Output voltage adjust range + 10%
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 1.0KVDC/1min
 I/P -F/G: 1.0KVDC/1min
 O/P-F/G: 0.5KVDC/1min
 Isolation resistance 100M Ω @500VDC
 Operating temperature -10 $^{\circ}$ C ~+50 $^{\circ}$ C
 Storage temperature -20 $^{\circ}$ C ~+85 $^{\circ}$ C
 Safety standards design refer to LVD
 EMC standards design refer to EN55022, EN61000-4
 Cooling method fan

Model	DC Output	Load regul.	R&N	Efficiency
HF500W-SD**-12	12V 42A	0.5%	120mV	82%
HF500W-SD**-24	24V 21A	0.5%	200mV	82%
HF500W-SD**-48	48V 11A	0.5%	360mV	84%
HF600W-SD**-48	48V 13A	0.5%	480mV	84%
HF700W-SD**-24	24V 29A	0.5%	240mV	82%
HF800W-SD**-24	24V 35A	0.5%	240mV	82%
HF800W-SD**-48	48V 17A	0.5%	480mV	84%
HF1000W-SD**-24	24V 42A	0.5%	240mV	82%
HF1000W-SD**-48	48V 21A	0.5%	480mV	84%

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

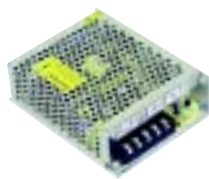
For more details, we sincerely invite you to visit our website: www.hengfu.com



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



40W Single Output for Telecom

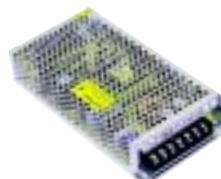


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F603 129 x 98 x 40(mm)

AC input voltage range 160~280VAC (210~370VDC)
 AC input voltage range (option) 85~280VAC (120~370VDC)
 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 105~150%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF40W-ST-12	12V 3.5A	0.5%	100mV	76%
HF40W-ST-13.5	13.5V 3.0A	0.5%	100mV	76%
HF40W-ST-24	24V 1.8A	0.5%	100mV	78%
HF40W-ST-27	27V 1.5A	0.5%	100mV	78%
HF40W-ST-48	48V 0.9A	0.5%	150mV	80%

100W Single Output for Telecom

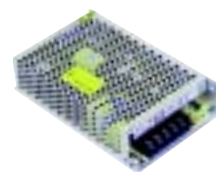


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

AC input voltage range 160~280VAC (210~370VDC)
 AC input voltage range (option) 85~132/170~280VAC selected by switch
 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 110~130%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF100W-ST-12	12V 9.0A	0.5%	100mV	82%
HF100W-ST-13.5	13.5V 7.4A	0.5%	100mV	82%
HF100W-ST-24	24V 4.5A	0.5%	100mV	83%
HF100W-ST-27	27V 3.7A	0.5%	100mV	83%
HF100W-ST-48	48V 2.2A	0.5%	150mV	84%

70W Single Output for Telecom

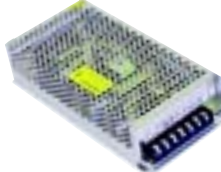


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range 160~280VAC (210~370VDC)
 AC input voltage range (option) 85~280VAC (120~370VDC)
 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 105~150%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF70W-ST-12	12V 6.0A	0.5%	100mV	78%
HF70W-ST-13.5	13.5V 5.2A	0.5%	100mV	78%
HF70W-ST-24	24V 3.0A	0.5%	120mV	82%
HF70W-ST-27	27V 2.6A	0.5%	120mV	82%
HF70W-ST-48	48V 1.5A	0.5%	150mV	83%

150W Single Output for Telecom



- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615 199 x 98 x 50(mm)

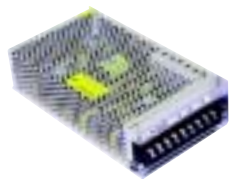
AC input voltage range 160~280VAC (210~370VDC)
 AC input voltage range (option) 85~132/170~280VAC selected by switch
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) ± 0.5%
 Output voltage adjust range ± 10%
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 -10℃ ~+50℃
 Storage temperature -20℃ ~+85℃
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output	Load regul.	R&N	Efficiency
HF150W-ST-12	12V 12.5A	0.5%	120mV	82%
HF150W-ST-13.5	13.5V 11.1A	0.5%	120mV	82%
HF150W-ST-24	24V 6.3A	0.5%	150mV	83%
HF150W-ST-27	27V 5.6A	0.5%	150mV	83%
HF150W-ST-48	48V 3.1A	0.5%	200mV	86%



200~400W Single / 70~100W Dual Telecom

200W Single Output for Telecom

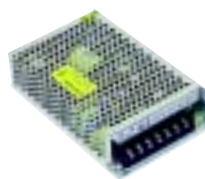


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F620 200 x 110 x 50(mm)

AC input voltage range	160~280VAC (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	110~130%
Output over voltage protection	115~150%
Withstand voltage	I/P -O/P: 3.0KVAC/1min
(gas tube must be deleted when test)	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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-ST-12	12V	16.7A	0.5%	100mV	82%
HF200W-ST-13.5	13.5V	14.8A	0.5%	100mV	82%
HF200W-ST-24	24V	8.3A	0.5%	120mV	83%
HF200W-ST-27	27V	8.0A	0.5%	120mV	83%
HF200W-ST-48	48V	4.2A	0.5%	150mV	86%

70W Dual Output for Telecom



- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39(mm)

AC input voltage range	160~280VAC (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	V ₁ : + 5% of rated output voltage
Output overload protection	105~150%
Output over voltage protection	115~150%
Withstand voltage	I/P -O/P: 3.0KVAC/1min
(gas tube must be deleted when test)	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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classB
	EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF70W-DT-A	27V	2.3A	0.5%	150mV	74%
	9V	1.0A	3.0%	100mV	
HF70W-DT-B	27V	2.2A	0.5%	150mV	74%
	12V	1.0A	3.0%	120mV	
HF70W-DT-C	24V	2.4A	0.5%	150mV	73%
	12V	1.0A	3.0%	120mV	

300~400W Single Output for Telecom

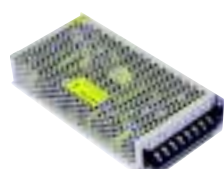


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 x 124 x 65(mm)

AC input voltage range	160~280VAC (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	110~130%, current limiting, auto recovery
Output over voltage protection	115~150%
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min
(gas tube must be deleted when test)	O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classA
Cooling method	fan

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-ST-12	12V	25.0A	0.5%	120mV	83%
HF300W-ST-24	24V	12.5A	0.5%	120mV	85%
HF300W-ST-27	27V	11.1A	0.5%	120mV	85%
HF300W-ST-48	48V	6.3A	0.5%	150mV	86%
HF400W-ST-13.5	13.5V	29.6A	0.5%	150mV	83%
HF400W-ST-24	24V	17.0A	0.5%	150mV	85%
HF400W-ST-27	27V	15.0A	0.5%	150mV	85%
HF400W-ST-48	48V	8.3A	0.5%	200mV	86%

100W Dual Output for Telecom

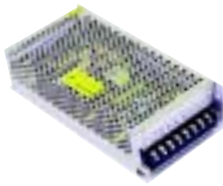


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F610 199 x 98 x 39(mm)

AC input voltage range	160~280VAC (210~370VDC)
AC input voltage range (option)	85~132/170~280VAC selected by switch
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	V ₁ : + 5% of rated output voltage
Output overload protection	110~130%
Output over voltage protection	115~150%
Withstand voltage	I/P -O/P: 3.0KVAC/1min
(gas tube must be deleted when test)	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	-10 ℃ ~+50 ℃
Storage temperature	-20 ℃ ~+85 ℃
Safety standards	design meet GB4943, UL60950, EN60950
EMC standards	design meet GB9254, EN55022 classB
	EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-DT-A	27V	3.0A	0.5%	150mV	82%
	9V	3.0A	3.0%	100mV	
HF100W-DT-B	27V	3.0A	0.5%	150mV	83%
	12V	2.0A	3.0%	100mV	
HF100W-DT-C	24V	3.2A	0.5%	150mV	82%
	12V	2.0A	3.0%	100mV	

150W Dual Output for Telecom



- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615 199 x 98 x 50(mm)

AC input voltage range 160~280VAC (210~370VDC)
 AC input voltage range (option) 85~132/170~280VAC selected by switch
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $V_i: \pm 5\%$ of rated output voltage
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classB
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-DT-A	27V	4.5A	0.5%	150mV	82%
	9V	3.0A	3.0%	100mV	
HF150W-DT-B	27V	4.0A	0.5%	150mV	83%
	12V	3.0A	3.0%	120mV	
HF150W-DT-C	24V	5.0A	0.5%	150mV	82%
	12V	2.0A	3.0%	120mV	

300W Dual Output for Telecom

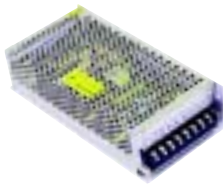


- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F630 241 x 124 x 65(mm)

AC input voltage range 160~280VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $V_i: \pm 5\%$ of rated output voltage
 Output overload protection 110~130%, current limiting, auto recovery
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method fan

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-DT-A	27V	10.0A	0.5%	150mV	84%
	9V	3.0A	3.0%	100mV	
HF300W-DT-B	27V	10.0A	0.5%	150mV	85%
	12V	3.0A	3.0%	120mV	
HF300W-DT-C	24V	11.0A	0.5%	150mV	84%
	12V	3.0A	3.0%	120mV	

200W Dual Output for Telecom



- Wide AC input range
- Wide operating temperature
- Built-in lightningproof 3000A (8/20us)
- AC input failure signal (option)
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F620 200 x 110 x 50(mm)

AC input voltage range 160~280VAC (210~370VDC)
 Input frequency 47~63Hz
 Inrush current cold start, 40A/230V
 Input leakage current 0.7mA/ 230VAC
 Line regulation (full load) $\pm 0.5\%$
 Output voltage adjust range $V_i: \pm 5\%$ of rated output voltage
 Output overload protection 110~130%
 Output over voltage protection 115~150%
 Withstand voltage I/P -O/P: 3.0KVAC/1min
 (gas tube must be deleted when test) 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 $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 Storage temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 Safety standards design meet GB4943, UL60950, EN60950
 EMC standards design meet GB9254, EN55022 classA
 Cooling method convection

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-DT-A	27V	6.0A	0.5%	150mV	82%
	9V	3.0A	3.0%	100mV	
HF200W-DT-B	27V	6.0A	0.5%	150mV	83%
	12V	3.0A	3.0%	120mV	
HF200W-DT-C	24V	6.8A	0.5%	150mV	82%
	12V	3.0A	3.0%	120mV	

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



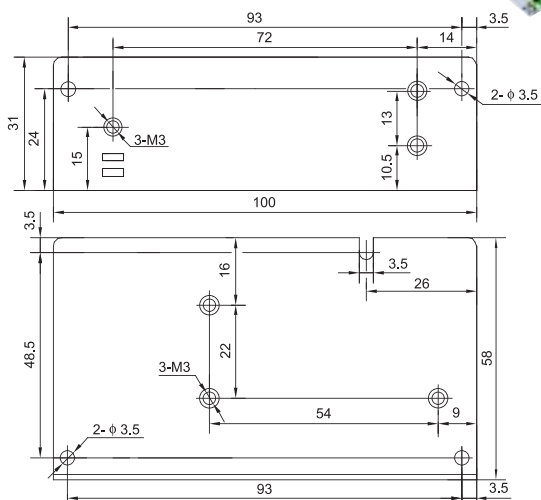
Custom Design Products

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

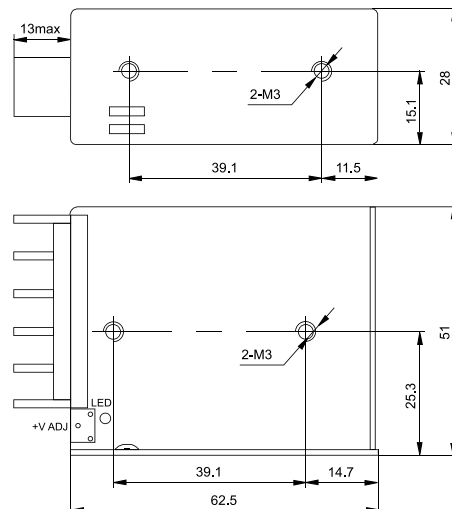




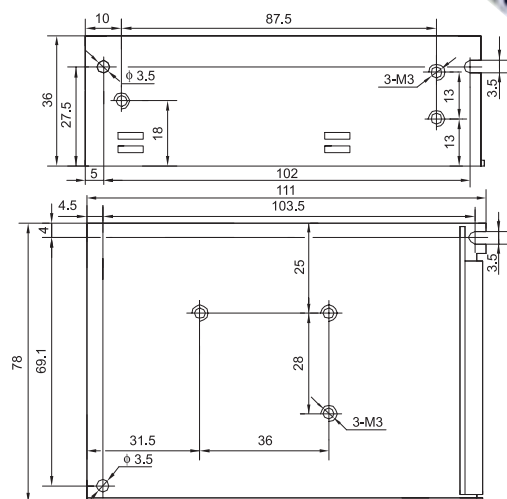
F601



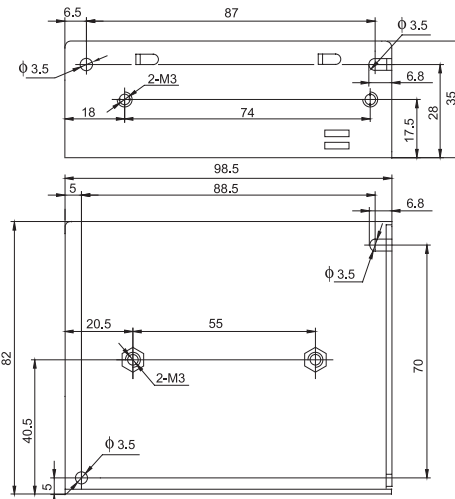
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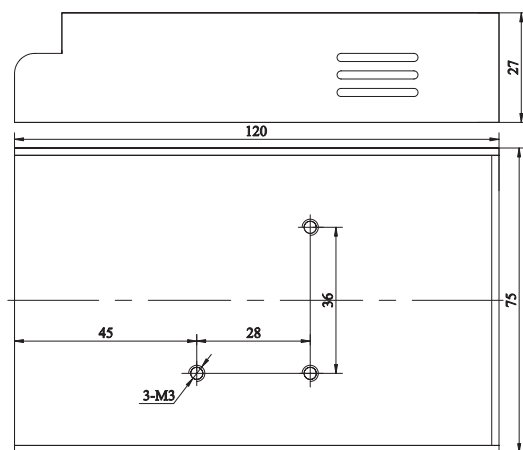
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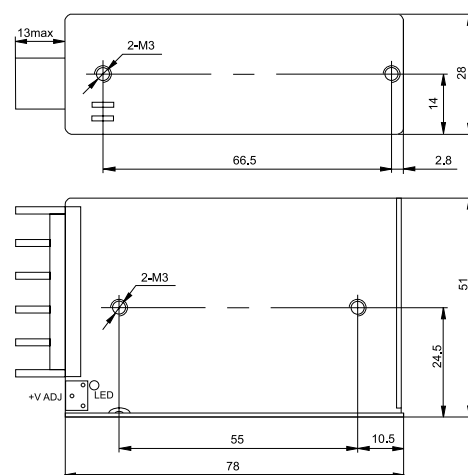
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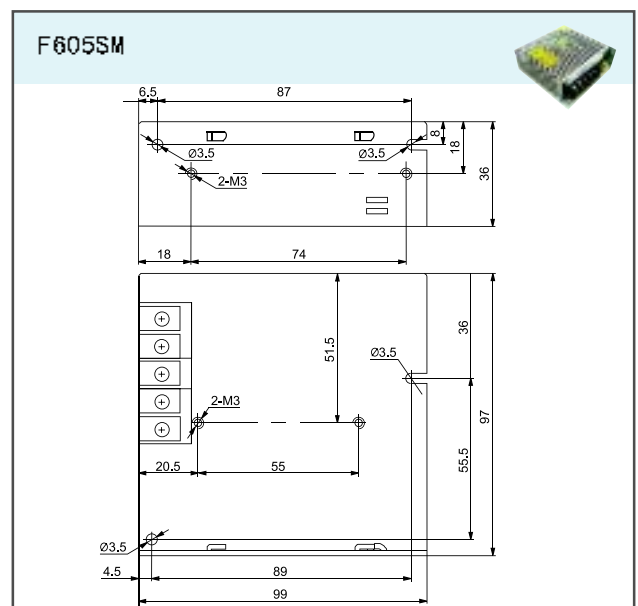
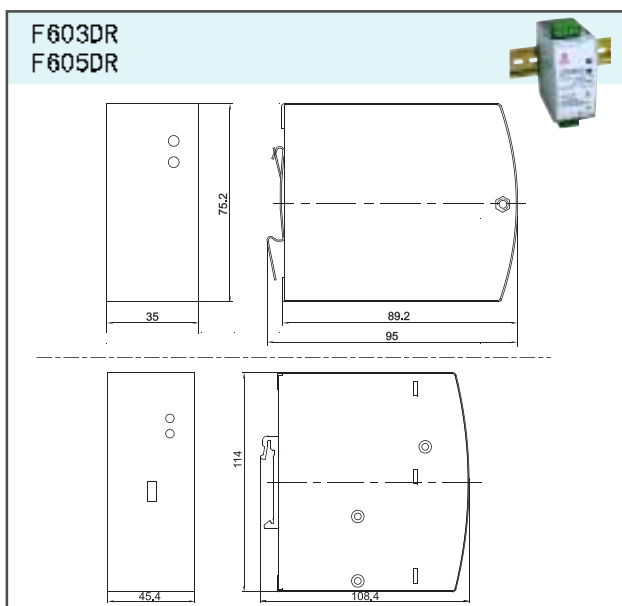
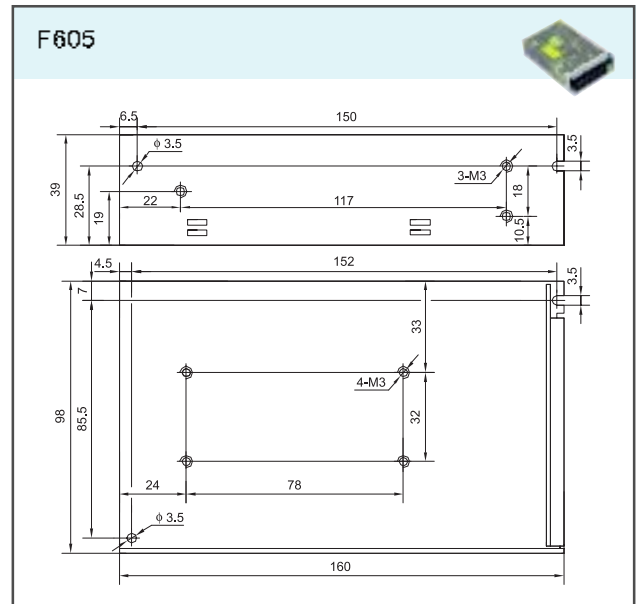
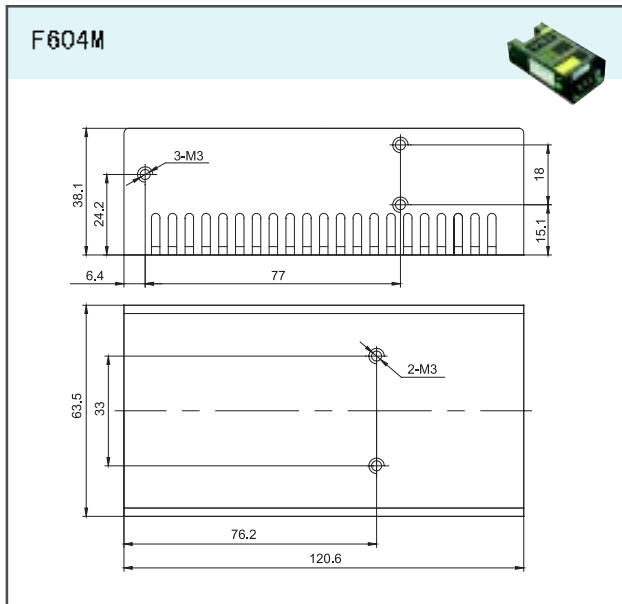
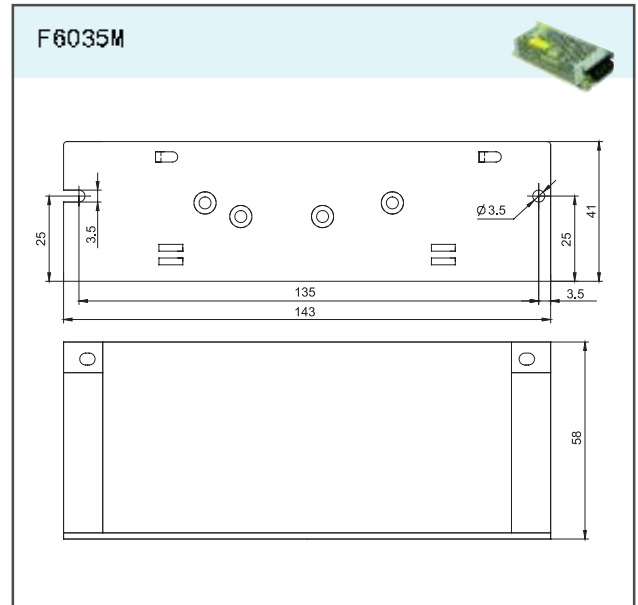
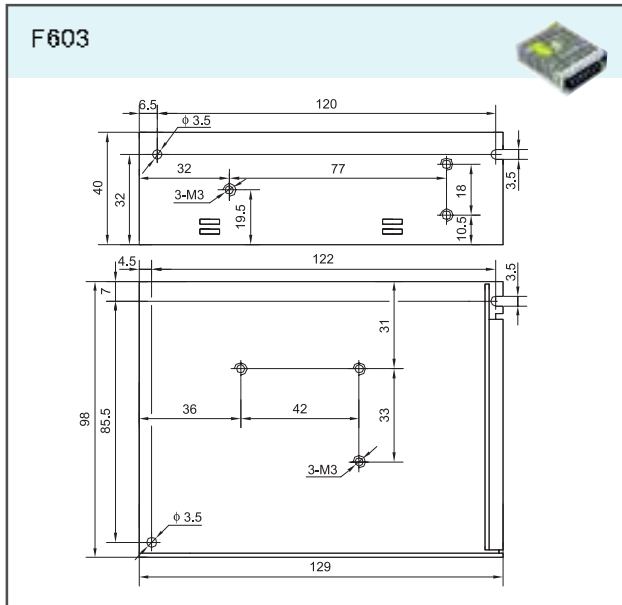


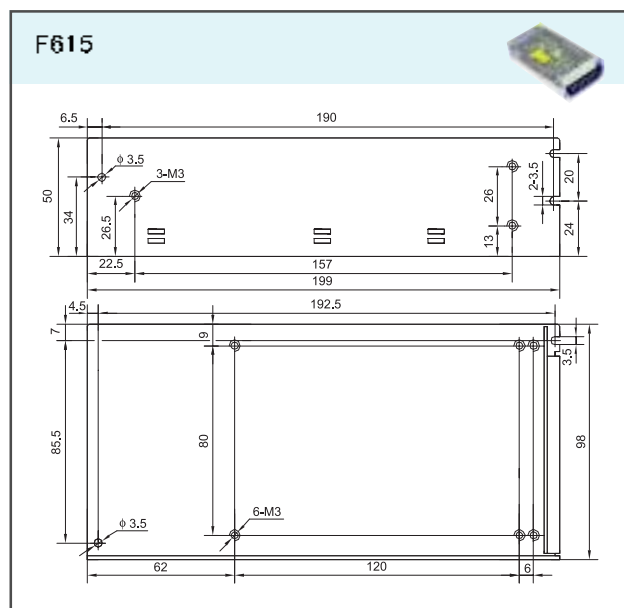
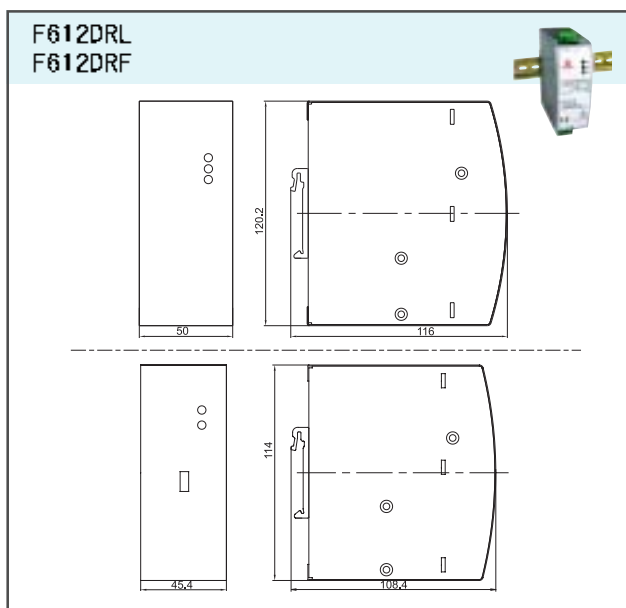
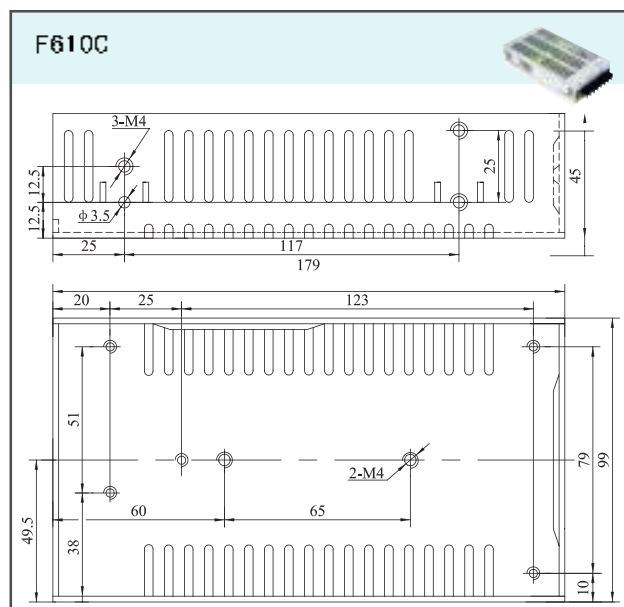
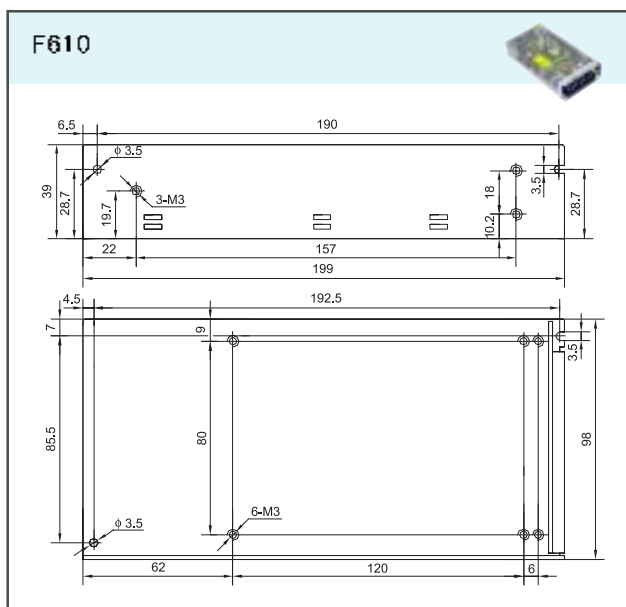
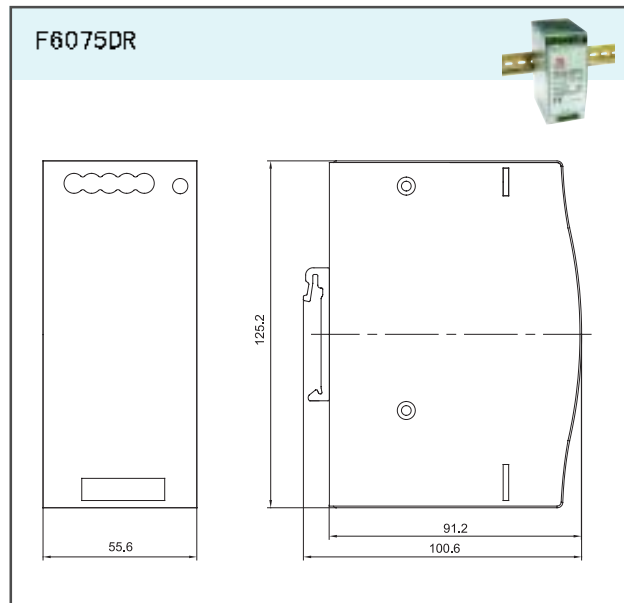
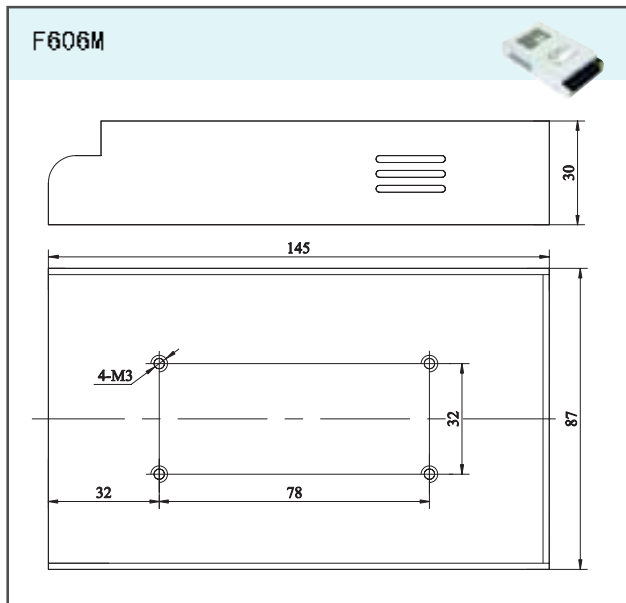
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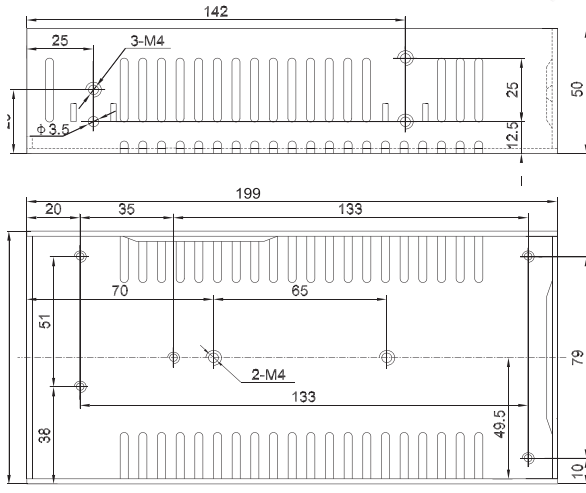
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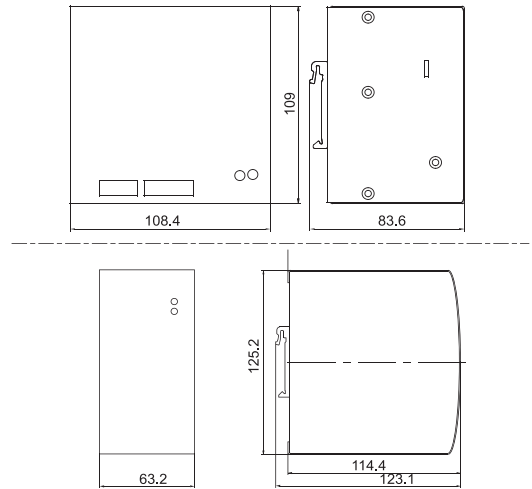




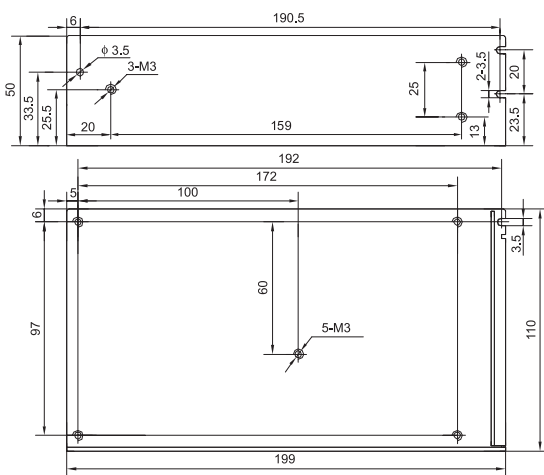
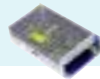
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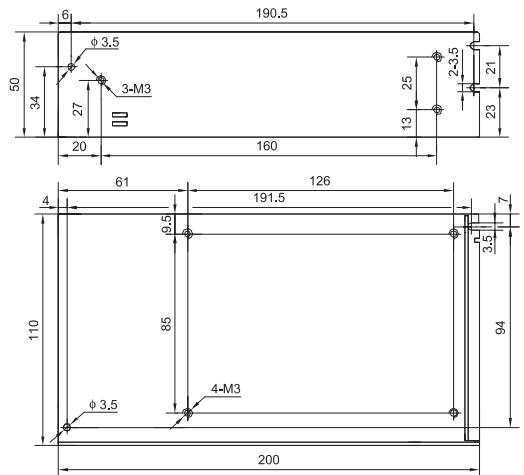
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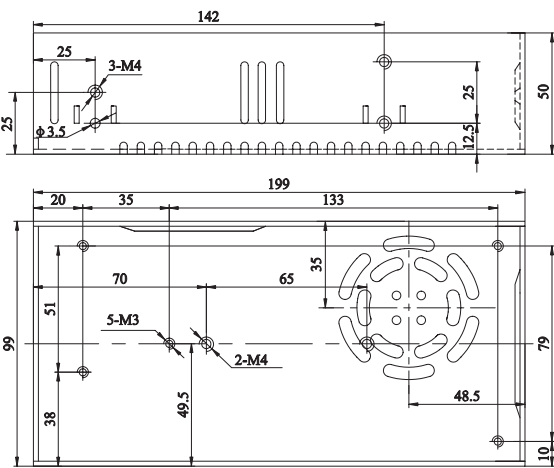
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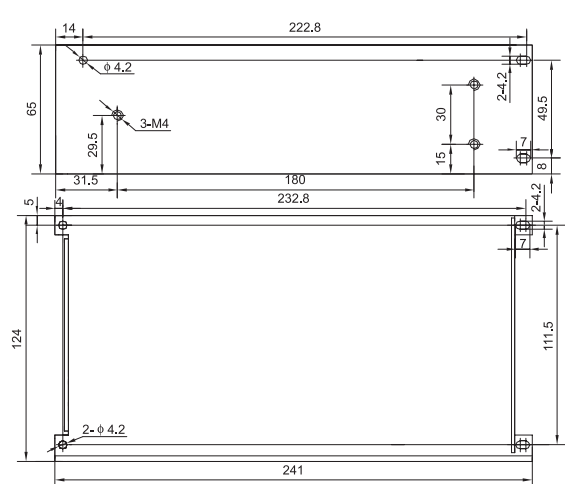
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F620C

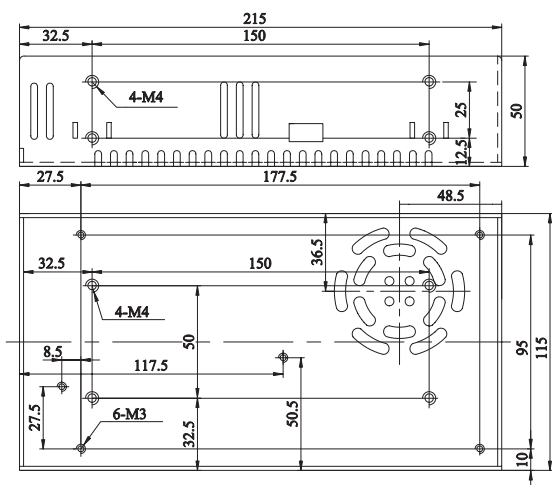


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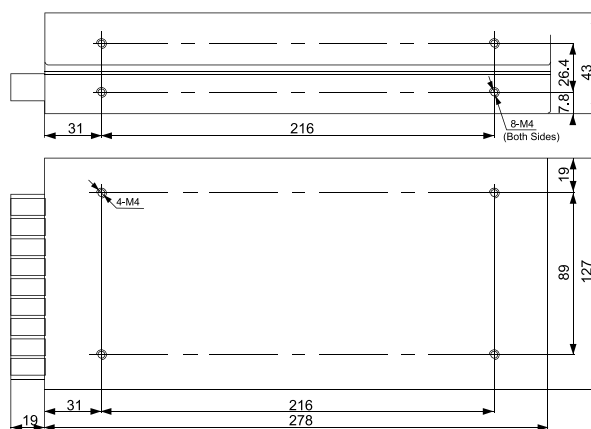




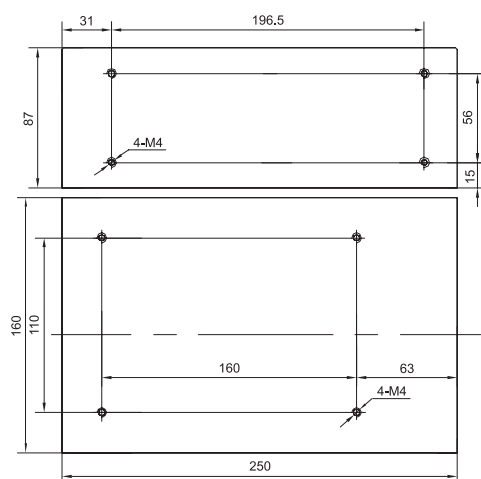
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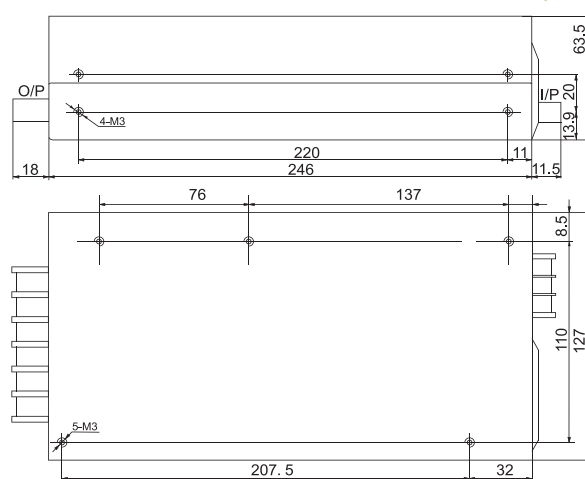
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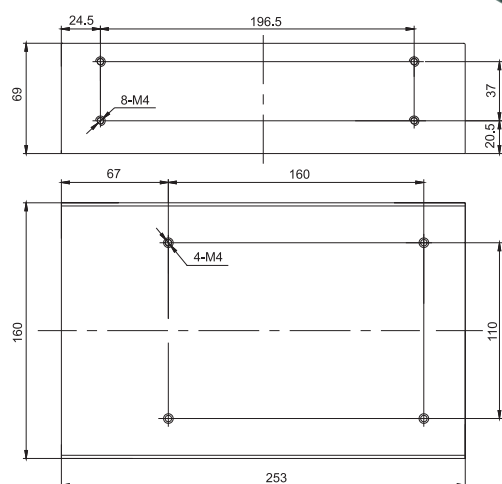
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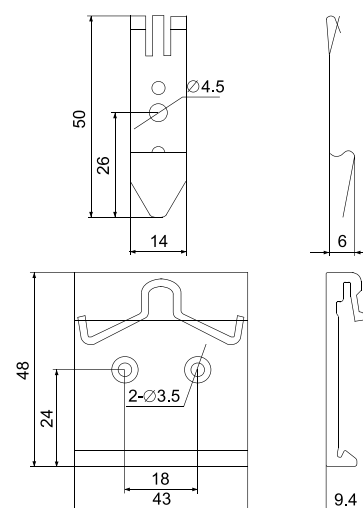
F660M



F6100M



Din rail clips



Technical Instructions:

- 1. 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.
- 2. Input inrush current:** is the maximum peak current when cold start of the power supply.
- 3. 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 be within the rated power of the series.
For multi-output products, normally V1 is isolated from the other output(s). To make it common granded, just connect +/- (accordingly) of V1 to the common connector of the other output(s).
- 4. Output power:** If the output voltage is increased, the output current should be lowered to keep the constant power. While if the output voltage is decreased, the output current cannot exceed the rated value.

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.

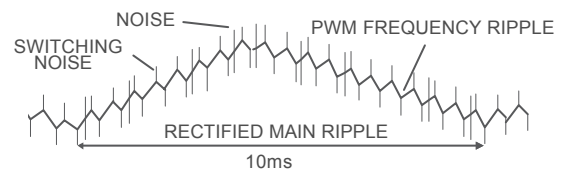


fig.1

6. How to test output ripple and noise of power supplies:

Fig 2 shows the best method for testing output ripple and noise of power supplies because the collection of the radiated noise is minimized. As shown in fig.2, test by an oscilloscope with a bandwidth of 20MHz. The ground ring of the probe is pressed directly against the output ground of the power supply and the tip is in contact with the output voltage pin. Care must be taken when using the scope probe.

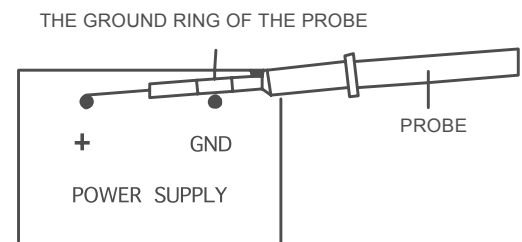


fig.2

- 7. 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.
- 8. MTBF:** is based on calculation of average lifetime of the key components, and the statistics of the working situation of many similar equipment, not considering abnormal working situation of power supplies, air pollution, etc.

Safety Precautions:

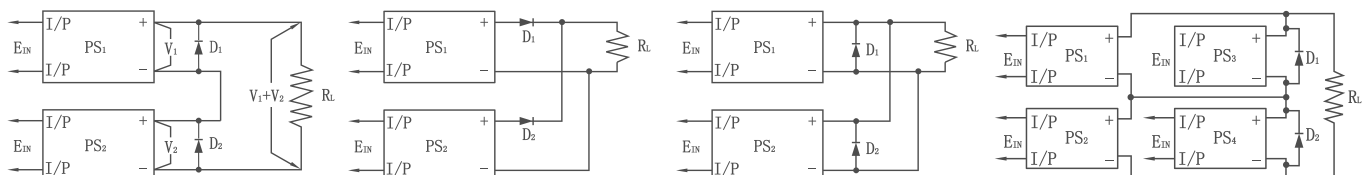
- 1. Definition of AC input:**
$$\text{Input current} = \frac{\text{output power}}{\text{input voltage} \times \text{input factor} \times \text{efficiency}}$$

- 2. Allocation of neutral line:** For power supplies with power factor 0.4~0.6, when several sets of power supplies used in 3-phase, 4-line input system, the current of the neutral line cannot be offsetted because of the distortion of the input current wave. Therefore, in normal circumstances, we suggest that the neutral line should be allocated as 1.5~2 times the cross-sectional area of the hot line.

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

- 4. 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).

5. Four typical ways of series-parallel connection as follows:





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 40 product series have acquired UL, TUV, CB, CE approval. Only top brand international components are adopted for the key parts. Our countrywide 12 branch offices and worldwide distributors are ready to offer you professional technical support and prompt service.

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