OCTOBER

2025

HENGFU SWITCHING POWER SUPPLY

Your reliable power partner

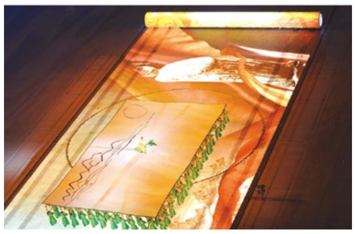
www.hengfu.com

上海厂区 Shanghai Factory

安徽厂区 Anhui Factory

公司重要项目
Important Projects

60 周年阅兵式 60th Anniversary Ceremony



北京奥运会 Beijing Olympics

上海世博会 Shanghai Expo

高新技术企业 High-tech Enterprise

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。公司在上海和安徽投资建造了两家工厂，已投入使用的厂房面积达34000㎡。我们拥有各类先进的生产和检测设备，如全自动点胶机、贴片机、插件机、波峰焊和回流焊设备、涂覆机、全自动变压器绕线机、程控恒温老化房、自动光学检测仪、开关电源自动测试系统、振动、跌落和冲击测试仪、RoHS光谱分析仪、EMC测试系统、环境试验箱、盐雾试验箱等。

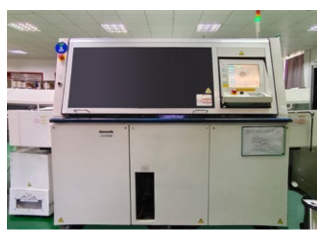
公司于2000年通过权威认证机构SGS公司ISO9001质量体系认证，并于2021年荣获“高新技术企业”称号。产品系列从5W到3000W，多达5000余种规格为客户提供了极大的灵活性。产品涵盖AC/DC和DC/DC标准品、PFC电源、导轨电源、安防电源、光伏电源、基板型电源及特殊定制品，常规系列均已通过UL,CB,CE,CCC认证。产品关键元器件均采用国内外知名品牌，以确保电源的长寿命和高可靠性。凭借优异的品质和品牌知名度，衡孚成为2008年北京奥运会“鸟巢”国家体育场、2009年国庆六十周年天安门LED全彩巨屏及2010年上海世博会各场馆的电源供应商。

深耕开关电源领域三十余载，我们已与全球数千家大中型企业包括多家世界500强企业建立了长期合作关系，应用涉及工业控制、激光设备、电梯设备、LED显示屏、LED灯饰亮化工程、安防系统、智能家居、轨道交通、农业机械、医疗设备等重要领域，以及光伏储能、新能源汽车充电桩、机器人控制系统等新兴领域。我们专业的销售队伍——遍布中国各大中型城市及海外的经销商，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！

电子车间 Electronic Workshop

点胶机 Dispenser

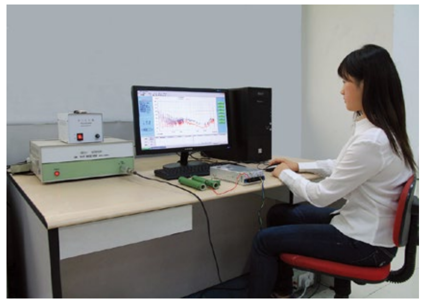
贴片机 Chip Placer



插件机 Automatic Insertion


研发中心 R&D Center


新品开发 Product Development


EMC 测试 EMC Test


振动冲击测试 Vibration & Impact Test

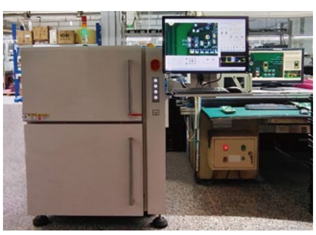

环境试验 Environmental Test

Company Profile

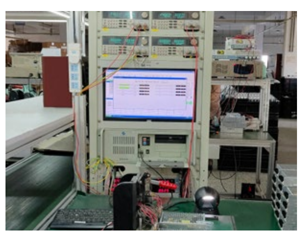
Hengfu Corporation, established in 1992, is recognized as a leading manufacturer in China of full-range industrial switching power supplies. The company has invested in two factories in Shanghai and Anhui, with a total in-use plant area of 34,000m². We are equipped with various advanced production and test equipment, such as dispenser, chip placer, automatic insertion, wave soldering and reflow soldering machine, coating machine, winding machine, programmable burn-in test room, automatic optical inspection, automated test, vibration, drop and impact test, X-ray RoHS test and EMC test equipment, environmental test and salt spray test chambers, etc.

The company was certified to the ISO 9001 standard by SGS in 2000, and was accredited as a National High-tech Enterprise in 2021. Our product series ranges from 5W to 3000W, including AC/DC & DC/DC standard, PFC, DIN rail, security, photovoltaic, open frame and custom-design switching power supplies. Over 5,000 models offer great flexibility to our customers, and most popular series have passed UL, CB, CE, CCC approvals. We adopted only renowned international and local brand for the key components to ensure long lifespan and high reliability. With high quality and market reputation, we were honored to become the main SMPS supplier for Beijing Olympics, 60^{th} National anniversary ceremony and Shanghai Expo.

By more than 30 years of deep cultivation in the field of switching power supplies, we have established long-term relationships with thousands of enterprises including several Fortune 500 companies. Our products are widely used in the fields such as industrial control, laser equipment, elevator, LED signs, LED lighting, security system, smart home, rail transportation, agricultural machinery, medical equipment, as well as emerging fields such as photovoltaic energy, electric vehicle charging station, and robot control systems. Our professional sales team - nationwide and worldwide distributors are ready to offer you technical support and prompt service. We are fully confident to offer you total power solution and become your trustworthy power partner.


自动光学检测仪 AOI


涂覆机 Automatic Coating


电源自动测试系统 ATE


恒温老化 Burn-in Test

Index 目录

LSK, LSE & LSM Series

SE Series

PFC Series

DIN Rail Series

Security Series

DC/DC Series

Open Frame Series

Diverse Applications 应用领域

• Industrial Control • Laser Equipment • Elevator • LED signs • LED Lighting
• Security System • Smart Home • Rail Transportation • Agricultural Machinery
• Photovoltaic Energy • Electric Vehicle Charging Station
• 工业控制 • 激光设备 • 电梯设备 • LED显示屏 • LED灯饰亮化工程
• 安防系统 • 智能家居 • 轨道交通 • 农业机械 • 光伏储能 • 新能源汽车充电桩

Features

- Universal AC input / full range
- Low profile with thickness only 30mm
- Operating altitude up to 5000m
- Wide range of operating temperature -40℃~+70℃
- Suitable for both AC and DC input
- Low standby power consumption & high efficiency
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty

Product picture	 F6015LSE	 F6025LSE	 F605LSE	 F605LSE	 F605LSM
Model No.	HF15W-LSK	HF25W-LSK	HF35W-LSK	HF50W-LSK	HF75W-LSK
Dimension (mm)	67.5×51×26	83×51×26	99×65×30	99×65×30	99×82×30
Weight & MPQ	0.07kg, 180pcs	0.1kg, 150pcs	0.14kg, 81pcs	0.14kg, 81pcs	0.2kg, 72pcs
Input voltage range	85~264VAC (120~370VDC)				
Input frequency	47~63Hz				
Inrush current	<30A/230VAC, cold start		<45A/230VAC, cold start		
Input leakage current	<0.5mA/240VAC		<0.75mA/240VAC		
Line regulation (full load)	≤±0.5%				
Voltage adjust range	±10%				
Standby power	<0.5W/230VAC				
Overload protection	105~150%, hiccup mode, auto recovery				
Over voltage protection	115~150%, shut off, clamping by diode	115~150%, hiccup mode, auto recovery			
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min		I/P -O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min		
Isolation resistance	I/P -O/P: 100MΩ; I/P-F/G: 100MΩ; O/P-F/G: 100MΩ				
Set up time	≤1.2s/115V; 0.6s/230V	≤0.5s/115V; 0.5s/230V	≤2.0s/115V; 1.0s/230V		
Rise time	<50ms/115V; 50ms/230V	<70ms/115V; 70ms/230V	<50ms/115V; 50ms/230V		
Hold up time	≥25ms/115V; 70ms/230V	≥30ms/115V; 80ms/230V	≥12ms/115V; 40ms/230V		
Operating temperature	-40℃~+70℃ (refer to the derating curve)				
Operating humidity	20%~90%RH, non-condensing				
Impact standards	Half sine wave, acceleration 20G, duration 11ms, 3 cycles each along X, Y, Z axes				
Vibration standards	Sine wave, vibration frequency 10-500Hz, acceleration 5G, 10min/cycle, 6 cycles each along X, Y, Z axes				
Safety standards	meet UL62368-1, EN IEC62368-1, EN IEC61558-1,2-16, EN60335-1, GB4943.1				
EMC standards	meet EN IEC55014-1,2, EN55032 Class B, EN55035, EN IEC61000-3-2,3, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1				
Cooling method	convection				

HF15W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF15W-LSK-5	5V	3.0A	1.0%	80mV	79%
HF15W-LSK-12	12V	1.3A	0.5%	100mV	86%
HF15W-LSK-15	15V	1.0A	0.5%	120mV	86%
HF15W-LSK-24	24V	0.65A	0.5%	120mV	88%
HF15W-LSK-36	36V	0.42A	0.5%	150mV	89%
HF15W-LSK-48	48V	0.33A	0.5%	150mV	91%
HF15W-LSK-54	54V	0.3A	0.5%	150mV	91%

HF25W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF25W-LSK-5	5V	5.0A	1.0%	100mV	84%
HF25W-LSK-12	12V	2.1A	0.5%	120mV	88%
HF25W-LSK-15	15V	1.67A	0.5%	120mV	88%
HF25W-LSK-24	24V	1.1A	0.5%	150mV	89%
HF25W-LSK-36	36V	0.7A	0.5%	150mV	89%
HF25W-LSK-48	48V	0.57A	0.5%	200mV	89%
HF25W-LSK-54	54V	0.52A	0.5%	200mV	90%

HF35W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-LSK-5	5V	7.0A	1.0%	80mV	76%
HF35W-LSK-12	12V	3.0A	0.5%	120mV	84%
HF35W-LSK-15	15V	2.4A	0.5%	150mV	84%
HF35W-LSK-24	24V	1.5A	0.5%	150mV	85%
HF35W-LSK-36	36V	1.0A	0.5%	150mV	86%
HF35W-LSK-48	48V	0.8A	0.5%	150mV	88%
HF35W-LSK-54	54V	0.72A	0.5%	150mV	88%

*Other output voltage also available, please send inquiry

HF50W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-LSK-5	5V	10.0A	1.0%	80mV	82%
HF50W-LSK-12	12V	4.2A	0.5%	120mV	85%
HF50W-LSK-15	15V	3.4A	0.5%	150mV	85%
HF50W-LSK-24	24V	2.2A	0.5%	150mV	86%
HF50W-LSK-36	36V	1.45A	0.5%	150mV	87%
HF50W-LSK-48	48V	1.1A	0.5%	150mV	88%
HF50W-LSK-54	54V	1.0A	0.5%	150mV	88%

HF75W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF75W-LSK-5	5V	14.0A	1.0%	80mV	82%
HF75W-LSK-12	12V	6.3A	0.5%	120mV	85%
HF75W-LSK-15	15V	5.0A	0.5%	150mV	85%
HF75W-LSK-24	24V	3.2A	0.5%	150mV	86%
HF75W-LSK-36	36V	2.1A	0.5%	150mV	87%
HF75W-LSK-48	48V	1.6A	0.5%	150mV	88%
HF75W-LSK-54	54V	1.43A	0.5%	150mV	88%

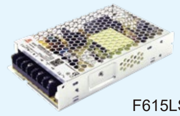
UL Certificate


CB Certificate

CCC Certificate

Features

- Universal AC input / full range
- Low profile with thickness only 30mm
- Operating altitude up to 5000m
- Wide range of operating temperature -40℃~+70℃
- Suitable for both AC and DC input
- Low standby power consumption & high efficiency
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty

Product picture	 F6075LSM	 F610LSM	 F615LSM	 F635LSE	 F635LSM
Model No.	HF100W-LSK	HF150W-LSK	HF240W-LSK	HF350W-LSK	HF450W-LSK/ HF600W-LSK
Dimension (mm)	99×97×30	129×97×30	159×97×30	179×106×30	215×115×30
Weight & MPQ	0.25kg, 60pcs	0.33kg, 40pcs	0.38kg, 32pcs	0.52kg, 24pcs	0.71kg/0.73kg, 20pcs
Input voltage range	85~264VAC (120~370VDC)		85~132VAC(120~187VDC)/170~264VAC(240~370VDC) selected by switch		
Input frequency	47~63Hz				
Inrush current	＜65A/230VAC, cold start				
Input leakage current	＜0.75mA/240VAC				
Line regulation (full load)	≤±0.5%				
Voltage adjust range	±10%				
Standby power	＜0.5W/230VAC			＜1.0W/230VAC	＜1.5W/230VAC
Overload protection	105~150%, hiccup mode, auto recovery			120~180%, hiccup mode, auto recovery	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover			115~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min		I/P -O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min		
Isolation resistance	I/P -O/P: 100MΩ; I/P-F/G: 100MΩ; O/P-F/G: 100MΩ				
Set up time	≤2.0s/115V; 1.0s/230V	≤0.5s/115V; 0.5s/230V			≤1.5s/115V; 1.5s/230V
Rise time	＜50ms/115V; 50ms/230V				＜200ms/115V; 200ms/230V
Hold up time	≥12ms/115V; 40ms/230V		≥20ms/115V; 30ms/230V	≥20ms/115V; 22ms/230V	≥10ms/115V; 10ms/230V
Operating temperature	-40℃~+70℃ (refer to the derating curve)				
Operating humidity	20%~90%RH, non-condensing				
Impact standards	Half sine wave, acceleration 20G, duration 11ms, 3 cycles each along X, Y, Z axes				
Vibration standards	Sine wave, vibration frequency 10-500Hz, acceleration 5G, 10min/cycle, 6 cycles each along X, Y, Z axes				
Safety standards	meet UL62368-1, EN IEC62368-1, EN IEC61558-1,2-16, EN60335-1, GB4943.1		meet UL62368-1, EN IEC62368-1, EN IEC61558-1,2-16, GB4943.1		
EMC standards	meet EN IEC55014-1,2, EN55032 Class B, EN55035, EN IEC61000-3-2,3, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1		meet EN55032 Class A, EN55035, EN IEC61000-3-3, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1		
Cooling method	convection			fan	

HF100W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-LSK-5	5V	18.0A	1.0%	100mV	82%
HF100W-LSK-12	12V	8.5A	0.5%	120mV	85%
HF100W-LSK-15	15V	7.0A	0.5%	150mV	85%
HF100W-LSK-24	24V	4.5A	0.5%	150mV	86%
HF100W-LSK-36	36V	2.8A	0.5%	150mV	87%
HF100W-LSK-48	48V	2.3A	0.5%	200mV	88%
HF100W-LSK-54	54V	2.06A	0.5%	200mV	88%

HF150W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-LSK-12	12V	12.5A	0.5%	150mV	87%
HF150W-LSK-15	15V	10.0A	0.5%	150mV	87%
HF150W-LSK-24	24V	6.5A	0.5%	150mV	88%
HF150W-LSK-36	36V	4.3A	0.5%	150mV	88%
HF150W-LSK-48	48V	3.3A	0.5%	200mV	89%
HF150W-LSK-54	54V	3.0A	0.5%	200mV	90%

HF240W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF240W-LSK-12	12V	17.0A	0.5%	150mV	86%
HF240W-LSK-15	15V	14.0A	0.5%	150mV	87%
HF240W-LSK-24	24V	10.0A	0.5%	150mV	89%
HF240W-LSK-36	36V	6.6A	0.5%	150mV	89%
HF240W-LSK-48	48V	5.0A	0.5%	200mV	90%

*Other output voltage also available, please send inquiry

HF350W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-LSK-12	12V	29.0A	0.5%	150mV	84%
HF350W-LSK-15	15V	23.2A	0.5%	150mV	85%
HF350W-LSK-24	24V	14.6A	0.5%	150mV	89%
HF350W-LSK-36	36V	9.7A	0.5%	180mV	90%
HF350W-LSK-48	48V	7.3A	0.5%	200mV	91%

HF450W-LSK

Model	DC Output		Load regul.	R&N	Efficiency
HF450W-LSK-12	12V	37.5A	0.5%	200mV	89%
HF450W-LSK-15	15V	30.0A	0.5%	200mV	89%
HF450W-LSK-24	24V	19.0A	0.5%	240mV	90%
HF450W-LSK-27	27V	16.7A	0.5%	240mV	90%
HF450W-LSK-36	36V	12.5A	0.5%	300mV	91%
HF450W-LSK-48	48V	9.5A	0.5%	300mV	91%

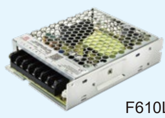
HF600W-LSK

(LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF600W-LSK-12	12V	50.0A	0.5%	200mV	89%
HF600W-LSK-15	15V	40.0A	0.5%	200mV	89%
HF600W-LSK-24	24V	25.0A	0.5%	240mV	90%
HF600W-LSK-27	27V	22.2A	0.5%	240mV	90%
HF600W-LSK-36	36V	16.7A	0.5%	300mV	91%
HF600W-LSK-48	48V	12.5A	0.5%	300mV	91%

Features

- Compact size, high reliability
- Low profile with thickness only 30mm
- Operating altitude up to 5000m
- Wide range of operating temperature -40℃~+70℃
- Suitable for both AC and DC input
- Low standby power consumption & high efficiency
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty

Product picture	 F605LSE	 F605LSE	 F605LSM	 F6075LSM	 F610LSM
Model No.	HF35W-LSE	HF50W-LSE	HF75W-LSE	HF100W-LSE	HF150W-LSE
Dimension (mm)	99×65×30	99×65×30	99×82×30	99×97×30	129×97×30
Weight & MPQ	0.14kg, 81pcs	0.14kg, 81pcs	0.20kg, 72pcs	0.24kg, 60pcs	0.31kg, 40pcs
Input voltage range	170~264VAC (240~370VDC)				
Input frequency	47~63Hz				
Inrush current	<45A/230VAC, cold start			<65A/230VAC, cold start	
Input leakage current	<0.75mA/240VAC				
Line regulation (full load)	±0.5%				
Voltage adjust range	±10%				
Standby power	<0.5W/230VAC				
Overload protection	105~150%, hiccup mode, auto recovery				
Over voltage protection	115~150%, hiccup mode, auto recovery				115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min				
Isolation resistance	I/P -O/P: 100MΩ; I/P-F/G: 100MΩ; O/P-F/G: 100MΩ				
Set up time	≤1000ms/230VAC				≤500ms/230VAC
Rise time	<50ms/230VAC				
Hold up time	≥20ms/230VAC				
Operating temperature	-40℃~+70℃ (refer to the derating curve)				
Operating humidity	20%~90%RH, non-condensing				
Impact standards	Half sine wave, acceleration 20G, duration 11ms, 3 cycles each along X, Y, Z axes				
Vibration standards	Sine wave, vibration frequency 10-500Hz, acceleration 5G, 10min/ cycle, 6 cycles each along X, Y, Z axes				
Safety standards	meet UL62368-1, EN IEC62368-1, EN IEC61558-1,2-16, EN60335-1, GB4943.1				
EMC standards	meet EN IEC55014-1,2, EN55032 Class B, EN55035, EN IEC61000-3-2,3, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1				
Cooling method	convection				

HF35W-LSE

ECO CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-LSE-5	5V	7.0A	1.0%	80mV	76%
HF35W-LSE-12	12V	3.0A	0.5%	120mV	84%
HF35W-LSE-15	15V	2.4A	0.5%	150mV	84%
HF35W-LSE-24	24V	1.5A	0.5%	150mV	85%
HF35W-LSE-28	28V	1.3A	0.5%	150mV	85%
HF35W-LSE-36	36V	1.0A	0.5%	150mV	86%
HF35W-LSE-48	48V	0.8A	0.5%	150mV	87%
HF35W-LSE-54	54V	0.72A	0.5%	150mV	88%

HF50W-LSE

ECO CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-LSE-5	5V	10.0A	1.0%	80mV	82%
HF50W-LSE-12	12V	4.2A	0.5%	120mV	85%
HF50W-LSE-15	15V	3.4A	0.5%	150mV	85%
HF50W-LSE-24	24V	2.2A	0.5%	150mV	86%
HF50W-LSE-28	28V	1.8A	0.5%	150mV	86%
HF50W-LSE-36	36V	1.45A	0.5%	150mV	87%
HF50W-LSE-48	48V	1.1A	0.5%	150mV	88%
HF50W-LSE-54	54V	1.0A	0.5%	150mV	88%

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

Only leading international and local brands are adopted for our key components to ensure product long lifespan and high reliability.

HF75W-LSE

ECO CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF75W-LSE-5	5V	14.0A	1.0%	80mV	82%
HF75W-LSE-12	12V	6.3A	0.5%	120mV	85%
HF75W-LSE-15	15V	5.0A	0.5%	150mV	85%
HF75W-LSE-24	24V	3.2A	0.5%	150mV	86%
HF75W-LSE-28	28V	2.7A	0.5%	150mV	86%
HF75W-LSE-36	36V	2.1A	0.5%	150mV	87%
HF75W-LSE-48	48V	1.6A	0.5%	150mV	88%
HF75W-LSE-54	54V	1.43A	0.5%	150mV	88%

HF100W-LSE

ECO CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-LSE-5	5V	18.0A	1.0%	100mV	82%
HF100W-LSE-12	12V	8.5A	0.5%	120mV	85%
HF100W-LSE-15	15V	7.0A	0.5%	150mV	85%
HF100W-LSE-24	24V	4.5A	0.5%	150mV	86%
HF100W-LSE-36	36V	2.8A	0.5%	150mV	87%
HF100W-LSE-48	48V	2.3A	0.5%	200mV	88%
HF100W-LSE-54	54V	2.06A	0.5%	200mV	88%

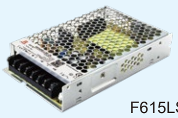
HF150W-LSE

ECO CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-LSE-12	12V	12.5A	0.5%	150mV	87%
HF150W-LSE-15	15V	10.0A	0.5%	150mV	87%
HF150W-LSE-24	24V	6.5A	0.5%	150mV	88%
HF150W-LSE-36	36V	4.3A	0.5%	150mV	88%
HF150W-LSE-48	48V	3.3A	0.5%	200mV	89%
HF150W-LSE-54	54V	3.0A	0.5%	200mV	90%

Features

· Compact size, high reliability
· Low profile, high efficiency
· Operating altitude up to 5000m
· Wide range of operating temperature -40℃~+70℃
· Suitable for both AC and DC input
· Low standby power consumption & high efficiency
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty

Product picture	 F615LSM	 F635LSE	 F635LSM	 F635LSM	 F650SCM
Model No.	HF240W-LSE	HF350W-LSE	HF450W-LSE	HF600W-LSE	HF1000W-LSE
Dimension (mm)	159×97×30	179×106×30	215×115×30	215×115×30	230×127×40.5
Weight & MPQ	0.38kg, 32pcs	0.5kg, 24pcs	0.71kg, 20pcs	0.73kg, 20pcs	1.09kg, 12pcs
Input voltage range	170~264VAC (240~370VDC)				
Input frequency	47~63Hz				
Inrush current	＜65A/230VAC, cold start				
Input leakage current	＜0.75mA/240VAC				
Line regulation (full load)	±0.5%				
Voltage adjust range	±10%				
Standby power	＜0.5W/230VAC	＜0.8W/230VAC	＜1.5W/230VAC		＜10W/230VAC
Overload protection	105~150%, hiccup mode, auto recovery	120~180%, hiccup mode, auto recovery	105~150%, hiccup mode, auto recovery		105~130%, current limiting, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover		115~150%, hiccup mode, auto recovery		115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min				
Isolation resistance	I/P -O/P: 100MΩ; I/P-F/G: 100MΩ; O/P-F/G: 100MΩ				
Set up time	≤500ms/230VAC		≤1500ms/230VAC		≤1000ms/230VAC
Rise time	＜50ms/230VAC		＜200ms/230VAC		＜100ms/230VAC
Hold up time	≥20ms/230VAC		≥10ms/230VAC		≥16ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)				
Operating humidity	20%~90%RH, non-condensing				
Impact standards	Half sine wave, acceleration 20G, duration 11ms, 3 cycles each along X, Y, Z axes				
Vibration standards	Sine wave, vibration frequency 10-500Hz, acceleration 5G, 10min/cycle, 6 cycles each along X, Y, Z axes				
Safety standards	meet UL62368-1, EN IEC62368-1, EN IEC61558-1,2-16, GB4943.1				meet UL/EN IEC62368-1
EMC standards	meet EN55032 Class A, EN55035, EN IEC61000-3-3, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1				meet EN55035, IEC61000-4-2,3,4,5,6,8,11
Cooling method	convection	fan			

HF240W-LSE

ECO CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF240W-LSE-12	12V	17.0A	0.5%	150mV	86%
HF240W-LSE-15	15V	14.0A	0.5%	150mV	87%
HF240W-LSE-24	24V	10.0A	0.5%	150mV	89%
HF240W-LSE-36	36V	6.6A	0.5%	150mV	89%
HF240W-LSE-48	48V	5.0A	0.5%	200mV	90%
HF240W-LSE-54	54V	3.7A	0.5%	200mV	90%

HF600W-LSE

CB CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF600W-LSE-12	12V	50.0A	0.5%	200mV	89%
HF600W-LSE-15	15V	40.0A	0.5%	200mV	89%
HF600W-LSE-24	24V	25.0A	0.5%	240mV	90%
HF600W-LSE-27	27V	22.0A	0.5%	240mV	90%
HF600W-LSE-36	36V	16.7A	0.5%	300mV	91%
HF600W-LSE-48	48V	12.5A	0.5%	300mV	91%
HF600W-LSE-54	54V	11.1A	0.5%	300mV	91%

HF350W-LSE

CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-LSE-12	12V	29.0A	0.5%	150mV	85%
HF350W-LSE-15	15V	23.2A	0.5%	150mV	85%
HF350W-LSE-24	24V	14.6A	0.5%	150mV	88%
HF350W-LSE-36	36V	9.7A	0.5%	180mV	89%
HF350W-LSE-48	48V	7.3A	0.5%	200mV	89%
HF350W-LSE-54	54V	6.5A	0.5%	200mV	89%

HF1000W-LSE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF1000W-LSE-24	24V	42.0A	0.5%	200mV	87%
HF1000W-LSE-28	28V	35.0A	0.5%	200mV	88%
HF1000W-LSE-30	30V	33.5A	0.5%	200mV	88%
HF1000W-LSE-36	36V	28.0A	0.5%	200mV	88%
HF1000W-LSE-48	48V	21.0A	0.5%	200mV	88%
HF1000W-LSE-54	54V	18.5A	0.5%	200mV	88%

HF450W-LSE

CB CE

Model	DC Output		Load regul.	R&N	Efficiency
HF450W-LSE-12	12V	37.5A	0.5%	200mV	89%
HF450W-LSE-15	15V	30.0A	0.5%	200mV	89%
HF450W-LSE-24	24V	19.0A	0.5%	240mV	90%
HF450W-LSE-27	27V	16.7A	0.5%	240mV	90%
HF450W-LSE-36	36V	12.5A	0.5%	300mV	91%
HF450W-LSE-48	48V	9.5A	0.5%	300mV	91%

*Other output voltage also available, please send inquiry

CE Certificate

ISO9001 Certificate

RoHS Certificate

Features

- Universal AC input / full range
- Low profile with thickness only 30mm
- Top brand components for key parts
- Low standby power consumption
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty

Product picture	 F605LSM	 F605LSM	 F6075LSM	 F610LSM	 F615LSM	 F635LSM	 F635LSM
Model No.	HF35W-LSM	HF50W-LSM	HF75W-LSM	HF100W-LSM	HF150W-LSM	HF200W-FSM	HF350W-FSM
Dimension (mm)	99×82×30	99×82×30	99×97×30	129×97×30	159×97×30	215×115×30	215×115×30
Weight & MPQ	0.21kg, 72pcs	0.22kg, 72pcs	0.25kg, 60pcs	0.31kg, 40pcs	0.40kg, 32pcs	0.59kg, 20pcs	0.69kg, 20pcs
Input voltage range	85~264VAC (120~370VDC)					85~132/170~264VAC selected by switch	
Input frequency	47~63Hz						
Inrush current	<40A/230VAC, cold start		<45A/230VAC	<65A/230VAC, cold start			
Input leakage current	<0.75mA/240VAC						
Line regulation (full load)	⩽±0.5%						
Voltage adjust range	±10%						
Overload protection	105~150%, hiccup mode, auto recovery						
Over voltage protection	115~150%, shut off, re-power on to recover					115~150%, hiccup mode, auto recovery	
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min						
Rise time	<50ms/115VAC; 50ms/230VAC						
Hold up time	⩾12ms/115VAC; ⩾30ms/230VAC		⩾10ms/115VAC; ⩾50ms/230VAC	⩾10ms/115VAC; ⩾30ms/230VAC	⩾10ms/115VAC; ⩾20ms/230VAC	⩾20ms/115VAC; ⩾20ms/230VAC	⩾16ms/115VAC; ⩾16ms/230VAC
Operating temperature	-30℃~+70℃ (refer to the derating curve)						
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1						
EMC standards	meet EN55032 Class B, EN55035, EN IEC61000-3-2,3, IEC61000-4-2,3,4,5,6,8,11, GB17625.1, GB/T9254.1					meet EN55032 Class A, EN55035, IEC61000-4-2,3,4,5,6,8,11	
Cooling method	convection						fan

HF35W-LSM

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-LSM-3.3	3.3V	7.0A	1.0%	80mV	70%
HF35W-LSM-5	5V	7.0A	1.0%	80mV	77%
HF35W-LSM-12	12V	3.0A	0.5%	120mV	85%
HF35W-LSM-15	15V	2.4A	0.5%	120mV	86%
HF35W-LSM-24	24V	1.5A	0.5%	150mV	87%
HF35W-LSM-28	28V	1.3A	0.5%	150mV	87%
HF35W-LSM-36	36V	1.0A	0.5%	150mV	88%
HF35W-LSM-48	48V	0.8A	0.5%	150mV	88%

HF50W-LSM

Model	DC Output		Load regul.	R&N	Efficiency
HF50W-LSM-3.3	3.3V	10.0A	1.0%	80mV	73%
HF50W-LSM-5	5V	10.0A	1.0%	80mV	78%
HF50W-LSM-12	12V	4.2A	0.5%	120mV	86%
HF50W-LSM-15	15V	3.4A	0.5%	120mV	87%
HF50W-LSM-24	24V	2.2A	0.5%	150mV	88%
HF50W-LSM-28	28V	1.8A	0.5%	150mV	88%
HF50W-LSM-36	36V	1.45A	0.5%	150mV	89%
HF50W-LSM-48	48V	1.1A	0.5%	150mV	89%

HF75W-LSM

Model	DC Output		Load regul.	R&N	Efficiency
HF75W-LSM-5	5V	14.0A	1.0%	100mV	83%
HF75W-LSM-12	12V	6.0A	0.5%	120mV	86%
HF75W-LSM-15	15V	5.0A	0.5%	120mV	87%
HF75W-LSM-24	24V	3.2A	0.5%	150mV	88%
HF75W-LSM-28	28V	2.7A	0.5%	150mV	88%
HF75W-LSM-36	36V	2.1A	0.5%	150mV	89%
HF75W-LSM-48	48V	1.6A	0.5%	150mV	90%

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

HF100W-LSM

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-LSM-5	5V	18.0A	1.0%	100mV	84%
HF100W-LSM-12	12V	8.5A	0.5%	120mV	86%
HF100W-LSM-15	15V	7.0A	0.5%	120mV	87%
HF100W-LSM-24	24V	4.5A	0.5%	150mV	88%
HF100W-LSM-28	28V	3.6A	0.5%	150mV	88%
HF100W-LSM-36	36V	2.8A	0.5%	150mV	89%
HF100W-LSM-48	48V	2.2A	0.5%	200mV	90%

HF150W-LSM

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-LSM-5	5V	22.0A	1.0%	100mV	85%
HF150W-LSM-12	12V	12.5A	0.5%	150mV	86%
HF150W-LSM-15	15V	10.0A	0.5%	150mV	87%
HF150W-LSM-24	24V	6.5A	0.5%	150mV	88%
HF150W-LSM-36	36V	4.3A	0.5%	180mV	89%
HF150W-LSM-48	48V	3.3A	0.5%	200mV	90%

HF200W-FSM

(LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-FSM-5	5V	40.0A	1.0%	150mV	86%
HF200W-FSM-12	12V	17.0A	0.5%	150mV	87%
HF200W-FSM-24	24V	8.8A	0.5%	150mV	88%
HF200W-FSM-36	36V	5.9A	0.5%	180mV	89%
HF200W-FSM-48	48V	4.4A	0.5%	200mV	90%

HF350W-FSM

(LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-FSM-5	5V	60.0A	1.0%	150mV	84%
HF350W-FSM-12	12V	29.0A	0.5%	150mV	85%
HF350W-FSM-15	15V	23.2A	0.5%	150mV	86%
HF350W-FSM-24	24V	14.6A	0.5%	150mV	87%
HF350W-FSM-36	36V	9.7A	0.5%	200mV	88%
HF350W-FSM-48	48V	7.3A	0.5%	200mV	89%

Features

- Compact size, high reliability
- Top brand components for key parts
- Built-in EMI filter
- Suitable for both AC and DC input
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty

Product picture	 F601N	 F6035SET	 F6055SEL	 F603	 F605	 F605	 F610
Model No.	HF25W-SE	HF35W-SE	HF55W-SE	HF75W-SE	HF100W-SE	HF150W-SE	HF200W-SE
Dimension (mm)	100×58×32	98.5×82×35	99×97×38	129×98×39	160×98×39	160×98×39	199×98×39
Weight & MPQ	0.14kg, 108pcs	0.19kg, 72pcs	0.22kg, 60pcs	0.28kg, 42pcs	0.34kg, 40pcs	0.37kg, 40pcs	0.51kg, 28pcs
Input voltage range	170~264VAC (240~370VDC)						
Input frequency	47~63Hz						
Inrush current	<30A/230VAC, cold start		<45A/230VAC, cold start				<65A/230VAC
Input leakage current	<0.5mA/240VAC						
Line regulation (full load)	≤±0.5%						
Voltage adjust range	±10%						
Overload protection	105~150%, hiccup mode, auto recovery						
Over voltage protection	115~150%, hiccup mode, auto recovery		115~150%, shut off, re-power on to recover		115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min						
Rise time	<50ms/230VAC		<50ms/230VAC		<70ms/230VAC	<50ms/230VAC, 100ms/230VAC@48V	
Hold up time	≥40ms/230VAC		≥35ms/230VAC		≥35ms/230VAC		
Operating temperature	-30℃~+70℃ (refer to the derating curve)						
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1						
Cooling method	convection						

HF25W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF25W-SE-5	5V	5.0A	1.0%	80mV	78%
HF25W-SE-9	9V	3.0A	0.5%	120mV	80%
HF25W-SE-12	12V	2.0A	0.5%	120mV	84%
HF25W-SE-15	15V	1.6A	0.5%	120mV	84%
HF25W-SE-24	24V	1.0A	0.5%	150mV	86%
HF25W-SE-48	48V	0.5A	0.5%	150mV	86%

HF35W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-SE-5	5V	7.0A	1.0%	80mV	77%
HF35W-SE-9	9V	4.0A	0.5%	120mV	83%
HF35W-SE-12	12V	3.0A	0.5%	120mV	86%
HF35W-SE-15	15V	2.4A	0.5%	120mV	86%
HF35W-SE-24	24V	1.5A	0.5%	150mV	88%
HF35W-SE-48	48V	0.7A	0.5%	150mV	89%

HF55W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF55W-SE-5	5V	10.0A	1.0%	80mV	76%
HF55W-SE-12	12V	4.6A	0.5%	120mV	86%
HF55W-SE-15	15V	3.7A	0.5%	150mV	87%
HF55W-SE-18	18V	3.0A	0.5%	150mV	87%
HF55W-SE-24	24V	2.3A	0.5%	150mV	88%
HF55W-SE-48	48V	1.2A	0.5%	150mV	88%

HF75W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF75W-SE-12	12V	6.3A	0.5%	150mV	86%
HF75W-SE-15	15V	5.0A	0.5%	150mV	86%
HF75W-SE-24	24V	3.0A	0.5%	150mV	87%
HF75W-SE-27	27V	2.6A	0.5%	150mV	87%
HF75W-SE-48	48V	1.5A	0.5%	180mV	88%

*Other output voltage also available, please send inquiry

HF100W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-SE-9	9V	11.0A	0.5%	120mV	83%
HF100W-SE-12	12V	8.5A	0.5%	120mV	85%
HF100W-SE-13.8	13.8V	8.0A	0.5%	120mV	85%
HF100W-SE-15	15V	7.0A	0.5%	120mV	86%
HF100W-SE-18	18V	5.6A	0.5%	120mV	86%
HF100W-SE-24	24V	4.5A	0.5%	120mV	87%
HF100W-SE-36	36V	3.0A	0.5%	120mV	88%
HF100W-SE-48	48V	2.1A	0.5%	150mV	89%

HF150W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SE-12	12V	12.5A	0.5%	120mV	87%
HF150W-SE-15	15V	10.0A	0.5%	150mV	88%
HF150W-SE-18	18V	8.3A	0.5%	150mV	88%
HF150W-SE-24	24V	6.3A	0.5%	150mV	88%
HF150W-SE-28	28V	5.5A	0.5%	150mV	88%
HF150W-SE-30	30V	5.0A	0.5%	150mV	88%
HF150W-SE-36	36V	4.2A	0.5%	200mV	89%
HF150W-SE-48	48V	3.1A	0.5%	200mV	90%

HF200W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-SE-12	12V	16.7A	0.5%	120mV	86%
HF200W-SE-15	15V	13.3A	0.5%	120mV	87%
HF200W-SE-24	24V	8.3A	0.5%	150mV	89%
HF200W-SE-36	36V	5.6A	0.5%	200mV	89%
HF200W-SE-48	48V	4.2A	0.5%	200mV	90%

We have established long-term relationships with thousands of large and medium-sized enterprises including several Fortune 500 companies.

Features

· Compact size, high reliability
· Top brand components for key parts
· Built-in EMI filter
· Suitable for both AC and DC input
· Protections: overload/ over voltage/ short circuit/ over temperature
· 3 years limited warranty

Product picture	 F635A	 F635A	 F635A	 F6150SE	 F6150SE	 F6150SE	 F6150SE
Model No.	HF350W-SE	HF450W-SE	HF600W-SE	HF800W-SE	HF1000W-SE	HF1200W-SE	HF1500W-SE
Dimension (mm)	215×115×50	215×115×50	215×115×50	278×127×63.5	278×127×63.5	278×127×63.5	278×127×63.5
Weight & MPQ	0.8kg, 16pcs	0.84kg, 16pcs	0.88kg, 16pcs	1.7kg, 9pcs	1.7kg, 9pcs	1.75kg, 9pcs	1.75kg, 9pcs
Input voltage range	170~264VAC (240~370VDC)						
Input frequency	47~63Hz						
Inrush current	＜65A/230VAC, cold start			＜40A/230VAC, cold start			
Input leakage current	＜0.5mA/240VAC						
Line regulation (full load)	⩽±0.5%						
Voltage adjust range	±10%						
Overload protection	105~130%, shut off, re-power on to recover	105~130%, current limiting, auto recovery	105~150%, hiccup mode, auto recovery	105~130%, current limiting, re-power on to recover		105~130%, current limiting, auto recovery	105~130%, current limiting, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover		115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover			
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min						
Rise time	＜50ms/230VAC		＜100ms/230VAC	＜200ms/230VAC			
Hold up time	⩾35ms/230VAC	⩾12ms/230VAC	⩾16ms/230VAC				⩾14ms/230VAC
Operating temperature	-30℃~+70℃ (refer to the derating curve)						
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1						
Cooling method	fan						

HF350W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF350W-SE-5	5V	60.0A	1.0%	150mV	78%
HF350W-SE-12	12V	29.0A	0.5%	150mV	84%
HF350W-SE-15	15V	23.0A	0.5%	150mV	84%
HF350W-SE-24	24V	14.6A	0.5%	150mV	87%
HF350W-SE-27	27V	13.0A	0.5%	150mV	87%
HF350W-SE-30	30V	12.0A	0.5%	150mV	88%
HF350W-SE-36	36V	9.7A	0.5%	200mV	89%
HF350W-SE-48	48V	7.3A	0.5%	240mV	89%

HF450W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF450W-SE-12	12V	37.5A	0.5%	150mV	86%
HF450W-SE-15	15V	30.0A	0.5%	150mV	87%
HF450W-SE-24	24V	19.0A	0.5%	240mV	87%
HF450W-SE-36	36V	13.0A	0.5%	240mV	88%
HF450W-SE-48	48V	9.5A	0.5%	240mV	88%

HF600W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF600W-SE-12	12V	50.0A	0.5%	150mV	84%
HF600W-SE-15	15V	40.0A	0.5%	150mV	87%
HF600W-SE-24	24V	25.0A	0.5%	240mV	88%
HF600W-SE-27	27V	22.0A	0.5%	240mV	88%
HF600W-SE-36	36V	16.7A	0.5%	240mV	88%
HF600W-SE-48	48V	12.5A	0.5%	240mV	88%

HF800W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF800W-SE-24	24V	33.0A	0.5%	240mV	86%
HF800W-SE-28	28V	30.0A	0.5%	240mV	86%
HF800W-SE-36	36V	23.0A	0.5%	240mV	87%
HF800W-SE-40	40V	20.0A	0.5%	240mV	88%
HF800W-SE-48	48V	17.0A	0.5%	240mV	89%

*Other output voltage also available, please send inquiry

HF1000W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF1000W-SE-24	24V	42.0A	0.5%	240mV	88%
HF1000W-SE-28	28V	35.0A	0.5%	240mV	88%
HF1000W-SE-30	30V	33.5A	0.5%	240mV	88%
HF1000W-SE-36	36V	28.0A	0.5%	240mV	89%
HF1000W-SE-48	48V	21.0A	0.5%	240mV	90%

HF1200W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF1200W-SE-24	24V	50.0A	0.5%	240mV	89%
HF1200W-SE-28	28V	43.0A	0.5%	240mV	89%
HF1200W-SE-36	36V	33.5A	0.5%	240mV	89%
HF1200W-SE-40	40V	30.0A	0.5%	240mV	90%
HF1200W-SE-48	48V	25.0A	0.5%	240mV	90%

HF1500W-SE

CE (LVD)

Model	DC Output		Load regul.	R&N	Efficiency
HF1500W-SE-24	24V	63.0A	0.5%	240mV	87%
HF1500W-SE-28	28V	54.0A	0.5%	240mV	88%
HF1500W-SE-36	36V	42.0A	0.5%	240mV	89%
HF1500W-SE-40	40V	38.0A	0.5%	240mV	89%
HF1500W-SE-48	48V	32.0A	0.5%	300mV	90%

200W~500W Single Output with PFC

- Universal AC input / full range
- PF>0.98@115VAC; >0.93@230VAC
- Compact size, low profile
- Top brand components for key part
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty


F635LSM


F635LSM


F650SCM

Model No.	HF200W-LSC	HF320W-LSC	HF500W-LSC
Dimension(mm)	215×115×30	215×115×30	230×127×40.5
Weight & MPQ	0.7kg, 20pcs	0.76kg, 20pcs	1.07kg, 12pcs
Input voltage range	85~264VAC (120~370VDC)		
Input frequency	47~63Hz		
Inrush current	<65A/230VAC, cold start		
Input leakage current	<1mA/240VAC		
Line regulation	≤±0.5%		
Voltage adjust range	±10%		
Overload protection	105~150%, hiccup mode, auto recovery		105~150%, current limiting, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover		
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min		
Rise time	<50ms/230VAC	<60ms/230VAC	<120ms/230VAC
Hold up time	≥12ms/230VAC		≥20ms/230VAC
Operating temperature	-30℃~+70℃ (refer to the derating curve)		
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1		
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11		
Cooling method	convection	fan	

HF200W-LSC

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-LSC-12	12V	16.7A	0.5%	150mV	86%
HF200W-LSC-24	24V	8.4A	0.5%	150mV	89%
HF200W-LSC-48	48V	4.2A	0.5%	150mV	90%

HF320W-LSC

Model	DC Output		Load regul.	R&N	Efficiency
HF320W-LSC-12	12V	26.7A	0.5%	150mV	86%
HF320W-LSC-24	24V	13.4A	0.5%	200mV	89%
HF320W-LSC-48	48V	6.7A	0.5%	200mV	90%

HF500W-LSC

Model	DC Output		Load regul.	R&N	Efficiency
HF500W-LSC-12	12V	41.7A	0.5%	150mV	87%
HF500W-LSC-24	24V	21.0A	0.5%	150mV	89%
HF500W-LSC-48	48V	10.5A	0.5%	200mV	90%

*Other output voltage also available, please send inquiry

Power Factor Correction is a technique built into modern switching power supplies to make them draw electrical power from the utility mains as efficiently as possible.

Active PFC

Reduces Energy Waste: Improves the efficiency of the entire electrical grid.
Compliance with Regulations: international standards like IEC61000-3-2 to limit harmonic current emissions.

2400W Parallel (N+1) with PFC

- High power density, PF>0.95@230VAC
- Built in remote sense
- Remote ON/OFF control
- Current sharing up to 3 units
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F6240CN 278 x 178 x 63.5mm

Input voltage range	180~264VAC (254~370VDC)
Input frequency	47~63Hz
Inrush current	<60A/230VAC, cold start
Input leakage current	<2mA/240VAC
Line regulation (full load)	≤±0.5%
Voltage adjust range	±10%
Overload protection	105%~125%, current limiting, auto recovery, or shut off, re-power on to recover by delay 5s (optional)
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	80ms, 12ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	fan
Weight & MPQ	3.2kg, 4pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF2400W-SCN-24	24V	100.0A	0.5%	150mV	89%
HF2400W-SCN-48	48V	50.0A	0.5%	200mV	90%
HF2400W-SCN-60	60V	40.0A	0.5%	350mV	91%

3000W Parallel (N+1) with PFC

- High power density, PF>0.95@230VAC
- Built in remote sense
- Remote ON/OFF control
- Current sharing up to 3 units
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F6240CN 278 x 178 x 63.5mm

Input voltage range	180~264VAC (254~370VDC)
Input frequency	47~63Hz
Inrush current	<60A/230VAC, cold start
Input leakage current	<2mA/240VAC
Line regulation (full load)	≤±0.5%
Voltage adjust range	±10%
Overload protection	105%~125%, current limiting, auto recovery, or shut off, re-power on to recover by delay 5s (optional)
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	80ms, 10ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	fan
Weight & MPQ	3.3kg, 4pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF3000W-SCN-24	24V	125.0A	0.5%	240mV	89%
HF3000W-SCN-48	48V	62.5A	0.5%	240mV	90%
HF3000W-SCN-60	60V	50.0A	0.5%	600mV	91%

30W Single Output DIN Rail Series

- Universal AC input / full range
- Installed on DIN rail TS35/7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603EDR 25 x 68 x 69.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation (full load)	⩽±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	110~200%, hiccup mode, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾14ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/5.0mm, 2P/5.0mm pitch, screw terminal block
Weight	0.12kg

Model	DC Output		Load regul.	R&N	Efficiency
HF30W-EDR-12	12V	2.5A	0.5%	120mV	88%
HF30W-EDR-24	24V	1.25A	0.5%	120mV	89%
HF30W-EDR-48	48V	0.63A	0.5%	150mV	90%

75W Single Output DIN Rail Series

- Universal AC input / full range
- Installed on DIN rail TS35/7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610EDR 32 x 110 x 83.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation (full load)	⩽±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾10ms/115VAC; 35ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/6.35mm, 4P/6.35mm pitch, screw terminal block
Weight	0.31kg

Model	DC Output		Load regul.	R&N	Efficiency
HF75W-EDR-12	12V	6.3A	0.5%	150mV	87%
HF75W-EDR-24	24V	3.2A	0.5%	150mV	89%
HF75W-EDR-48	48V	1.6A	0.5%	180mV	91%

60W Single Output DIN Rail Series

- Universal AC input / full range
- Installed on DIN rail TS35/7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F606EDR 25 x 75 x 78.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation (full load)	⩽±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾10ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/5.0mm, 2P/5.0mm pitch, screw terminal block
Weight	0.16kg

Model	DC Output		Load regul.	R&N	Efficiency
HF60W-EDR-12	12V	5.0A	0.5%	150mV	88%
HF60W-EDR-24	24V	2.5A	0.5%	150mV	89%
HF60W-EDR-48	48V	1.25A	0.5%	180mV	91%

100W Single Output DIN Rail Series

- Universal AC input / full range
- Installed on DIN rail TS35/7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610EDR 32 x 110 x 83.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation (full load)	⩽±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾10ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/6.35mm, 4P/6.35mm pitch, screw terminal block
Weight	0.32kg

Model	DC Output		Load regul.	R&N	Efficiency
HF100W-EDR-12	12V	7.5A	0.5%	150mV	86%
HF100W-EDR-24	24V	4.2A	0.5%	150mV	89%
HF100W-EDR-48	48V	2.1A	0.5%	150mV	90%

*Other output voltage also available, please send inquiry

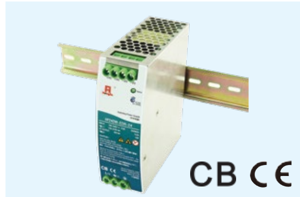
120W Single Output DIN Rail Series

- Universal AC input / full range
- Installed on DIN rail TS35/7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F612EDR 32 x 125 x 83.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<65A/230VAC, cold start
Input leakage current	<0.5mA/240VAC
Line regulation (full load)	≤±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	<50ms/115VAC; 50ms/230VAC
Hold up time	≥20ms/115VAC; 50ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/6.35mm, 4P/6.35mm pitch, screw terminal block
Weight	0.33kg

Model	DC Output		Load regul.	R&N	Efficiency
HF120W-EDR-12	12V	10.0A	0.5%	150mV	90%
HF120W-EDR-24	24V	5.0A	0.5%	150mV	91%
HF120W-EDR-48	48V	2.5A	0.5%	150mV	93%

240W Single Output DIN Rail Series - with PFC



- Univesal AC input / full range
- PF>0.99@115VAC; >0.97@230VAC
- Installed on DIN rail TS35/ 7.5 or 15
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F624EDR 41 x 124 x 110.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<15A/230VAC, cold start
Input leakage current	<0.5mA/240VAC
Line regulation(full load)	≤±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	110-180%, shut off after 1s of constant current operation, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	<50ms/115VAC; 50ms/230VAC
Hold up time	≥20ms/115VAC; 20ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/7.62mm, 4P/6.35mm pitch, screw terminal block
Weight	0.55kg

Model	DC Output		Load regul.	R&N	Efficiency
HF240W-EDR-12	12V	16.7A	0.5%	150mV	90%
HF240W-EDR-24	24V	10.0A	0.5%	150mV	94%
HF240W-EDR-48	48V	5.0A	0.5%	150mV	94%

150W Single Output DIN Rail Series

- Universal AC input / full range
- Installed on DIN rail TS35/7.5 or 15
- High reliability, compact design
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F612EDR 32 x 125 x 83.5mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<65A/230VAC, cold start
Input leakage current	<0.5mA/240VAC
Line regulation (full load)	≤±0.5%
Voltage adjust range	12-15V@12V, 24-29V@24V, 48-55V@48V
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	16-19V@12V, 30-34V@24V, 56-65V@48V shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.5KVAC/1min
Rise time	<50ms/115VAC; 50ms/230VAC
Hold up time	≥13ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL/EN IEC62368-1, EN61558-1,2-16, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, EN IEC61000-6-2,4, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/6.35mm, 4P/6.35mm pitch, screw terminal block
Weight	0.34kg

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-EDR-12	12V	11.0A	0.5%	150mV	89%
HF150W-EDR-24	24V	6.5A	0.5%	150mV	91%
HF150W-EDR-48	48V	3.2A	0.5%	150mV	93%

*Other output voltage also available, please send inquiry

480W Single Output DIN Rail Series - with PFC

- Univesal AC input / full range
- PF>0.99@115VAC; >0.97@230VAC
- Installed on DIN rail TS35/ 7.5 or 15
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F648DRL 48 x 125.2 x 127.5 mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<15A/230VAC, cold start
Input leakage current	<0.8mA/240VAC
Line regulation(full load)	≤±0.5%
Voltage adjust range	24-28V@24V; 48-55V@48V
Overload protection	105-160%, shut off after 1s of constant current operation, auto recovery
Over voltage protection	115-150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Rise time	<50ms/115VAC; 50ms/230VAC
Hold up time	≥20ms/115VAC; 20ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032 Class A, EN IEC61000-3-2,3 EN55035, IEC61000-4-2,3,4,5,6,8,11, GB17625.1, GB/T9254.1
Cooling method	convection
Connection	3P/7.62mm, 4P/6.35mm pitch, screw terminal block
Weight	0.85kg

Model	DC Output		Load regul.	R&N	Efficiency
HF480W-SDR-24	24V	20.0A	0.5%	120mV	93%
HF480W-SDR-48	48V	10.0A	0.5%	150mV	94%

150W Single Output DIN Rail Series

- AC input range selected by jumper
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, natural cooling
- Approvals: UL CE
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F615DRE 108.4 x 109 x 74.2mm

Input voltage range	85~32/170~264VAC selected by jumper
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input current	1.8A/230VAC
Input leakage current	<0.75mA/240VAC
Line regulation(full load)	⩽±0.5%
Voltage adjust range	±10%
Overload protection	115%~150%, delay shut off, re-power on to recover
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL508, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/6.35mm, 4P/6.35mm pitch, screw terminal block
Weight	0.67kg

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

240W Single Output DIN Rail - Wide Input Range

- Wide input range up to 528VAC
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, natural cooling
- Approvals: UL CE
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F624DRC 81.2 x 127.8 x 122.4mm

Input voltage range	176~528VAC (single ＆ two phase)
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input current	2.5A/230VAC
Input leakage current	<0.75mA/240VAC
Line regulation(full load)	⩽±0.5%
Voltage adjust range	±10%
Overload protection	105%~140%, delay shut off, re-power on to recover
Over voltage protection	110%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL508, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/9.5mm, 4P/9.5mm pitch, screw terminal block
Weight	0.85kg

Model	DC Output		Load regul.	R&N	Efficiency
HF240W-WDR-24	24V	10.0A	1.0%	200mV	86%

150W Single Output DIN Rail - Wide Input Range

- Wide input range up to 528VAC
- Installed on DIN rail TS35/ 7.5 or 15
- High reliability, natural cooling
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F615DRB 74.4 x 129.2 x 114.2mm

Input voltage range	170~528VAC (single ＆ two phase)
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input current	1.6A/230VAC
Input leakage current	<0.75mA/240VAC
Line regulation(full load)	⩽±0.5%
Voltage adjust range	23~28V
Overload protection	115%~170%, delay shut off, re-power on to recover
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL508, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Connection	3P/6.35mm, 4P/6.35mm pitch, screw terminal block
Weight	0.89kg

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-WDR-24	24V	6.0A	1.0%	200mV	86%

20W with Battery Charger (UPS Function)

- Suitable for security systems
- With UPS function (need external batteries)
- AC mains failure signal
- Battery low protection
- Battery reverse polarity protection
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F602 111 x 78 x 36mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	＜35A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage adjust range	V1:±5% of rated output voltage, V2: unadjustable
Overload protection	105~160%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight ＆ MPQ	0.2kg, 60pcs

Model	DC Output		R&N	Efficiency
HF20W-SB-12	12V	1.5A	120mV	73%
	13.8V	0.5A (Charger)		
HF20W-SB-24	24V	0.7A	150mV	75%
	27.1V	0.2A (Charger)		

40W with Battery Charger (UPS Function)

- Suitable for security systems
- With UPS function (need external batteries)
- AC mains failure signal
- Battery low signal
- Battery low and reverse polarity protection
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<45A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	V1:±5% of rated output voltage, V2: unadjustable
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight & MPQ	0.28kg, 42pcs

Model	DC Output		R&N	Efficiency
HF40W-SB-13.8	13.8V	2.9A	150mV	78%
	13.4V	0.23A (Charger)		
HF40W-SB-27.6	27.6V	1.4A	150mV	83%
	26.5V	0.16A (Charger)		

100W with Battery Charger (UPS Function)

- Suitable for security systems
- With UPS function (need external batteries)
- AC mains failure signal
- Battery low signal
- Battery low and reverse polarity protection
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610 199 x 98 x 39mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<65A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	V1:±5% of rated output voltage, V2: unadjustable
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight & MPQ	0.45kg, 28pcs

Model	DC Output		R&N	Efficiency
HF100W-SB-13.8	13.8V	6.0A	150mV	80%
	13.3V	0.5A (Charger)		
HF100W-SB-27.6	27.6V	3.0A	150mV	82%
	27.1V	0.5A (Charger)		

55W with Battery Charger (UPS Function)

- Suitable for security systems
- With UPS function (need external batteries)
- AC mains failure signal
- Battery low signal
- Battery low and reverse polarity protection
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<45A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	V1:±5% of rated output voltage, V2: unadjustable
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight & MPQ	0.33kg, 40pcs

Model	DC Output		R&N	Efficiency
HF55W-SB-13.8	13.8V	4.0A	150mV	79%
	13.4V	0.23A (Charger)		
HF55W-SB-27.6	27.6V	2.0A	150mV	80%
	26.5V	0.16A (Charger)		

155W with Battery Charger (UPS Function)

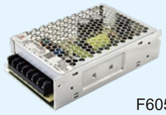
- Suitable for security systems
- With UPS function (need external batteries)
- AC mains failure signal
- Battery low signal
- Battery low and reverse polarity protection
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	85~264VAC (120~370VDC)
Input frequency	47~63Hz
Inrush current	<65A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	V1:±5% of rated output voltage, V2: unadjustable
Overload protection	110~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight & MPQ	0.52kg, 20pcs

Model	DC Output		R&N	Efficiency
HF155W-SB-A	13.8V	11.5A	200mV	84%
	13.3V	0.5A (Charger)		
HF155W-SB-B	27.6V	5.5A	200mV	86%
	27.1V	0.5A (Charger)		

Features

· Applicable to laser equipment
· High reliability
· Top brand components for key part
· Built-in EMI filter
· Approvals: CE(LVD)
· Protections: overload/ over voltage/ short circuit
· Free air cooling convection
· 3 years limited warranty

Product picture	 F605	 F610	 F615	 F605	 F6075LSM	 F610
Model No.	HF60W-D-L	HF100W-D-L	HF150W-D-L	HF100W-DE-L	HF60W-DEL-L	HF150W-DL-L
Dimension (mm)	160×98×39	199×98×39	199×98×50	160×98×39	99×97×30	199×98×39
Weight & MPQ	0.31kg, 40pcs	0.53kg, 28pcs	0.58kg, 20pcs	0.38kg, 40pcs	0.22kg, 60pcs	0.46kg, 28pcs
Input voltage range	170~264VAC (240~370VDC)				85~264VAC	90~264VAC
Input frequency	47~63Hz					
Inrush current	＜45A/230VAC, cold start					＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC					
Line regulation (full load)	≤±0.5%					
Voltage adjust range	V1:±5% of rated output voltage					
Overload protection	105~150%, hiccup mode, auto recovery	105~130%, shut off, re-power on to recover	105~150%, shut off, re-power on to recover	105~150%, hiccup mode, auto recovery	130~160%, hiccup mode, auto recovery	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover		115~150%, hiccup mode, auto recovery	built-in IC protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P -O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	＜50ms/230VAC				＜50ms/115VAC; 50ms/230VAC	
Hold up time	≥20ms/230VAC				≥10ms/115VAC; ≥40ms/230VAC	≥12ms/115VAC; ≥40ms/230VAC
Operating temperature	-30℃~+70℃ (refer to the derating curve)					
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1					
Cooling method	convection					

HF60W-D

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF60W-D-L	15V	0.2~2.0A	±1%	120mV	80%
	-15V	0.0~2.0A	±3%	120mV	

HF60W-DEL

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF60W-DEL-L	15V	0.2~2.0A	±1%	120mV	85%
	-15V	0.2~2.0A	±10%	120mV	

HF100W-D

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF100W-D-L	15V	0.0~3.0A	±1%	150mV	77%
	-15V	0.0~3.0A	±3%	150mV	

HF100W-DE

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF100W-DE-L	15V	1.0~5.0A	±1%	150mV	84%
	-15V	0.5~4.0A	±10%	150mV	

HF150W-D

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF150W-D-L	15V	1.0~5.0A	±1%	150mV	86%
	-15V	1.0~5.0A	±10%	150mV	

HF150W-DL

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF150W-DL-L	15V	0.4~5.0A	±1%	150mV	86%
	-15V	0.4~5.0A	±10%	150mV	

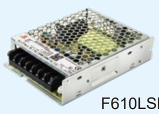
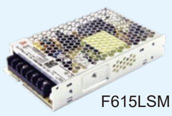
Our products are widely used in industrial control, laser equipment, elevator, security system, LED signs, rail transportation, photovoltaics, charging station, etc.

Our strong R&D team is ready to offer you total power solution and make custom design products to meet your individual needs.

Features

· Applicable to laser equipment
· High reliability
· Top brand components for key part
· Built-in EMI filter

· Approvals: CE(LVD)
· Protections: overload/ over voltage/ short circuit/ over temperature (HF300W-DM, HF600W-EQV)
·3 years limited warranty

Product picture	 F6075LSM	 F610LSM	 F615LSM	 F635SM	 F635F	 F635FQ
Model No.	HF100W-LDK-L	HF150W-LDK-L	HF200W-LDK	HF300W-DM-L	HF300W-QV-A	HF600W-EQV
Dimension (mm)	99×97×30	129×97×30	159x97x30	199×98×50	215×112×43	215×112×43
Weight & MPQ	0.25kg, 60pcs	0.33kg, 40pcs	0.42kg, 32pcs	0.73kg, 20pcs	0.7kg, 16pcs	0.9kg, 16pcs
Input voltage range	85~264VAC (120~370VDC)		85~132/170~264VAC selected by switch	170~264VAC (240~370VDC)	85~132/170~264VAC selected by switch	
Inrush current	＜65A/230VAC, cold start					
Input frequency	47~63Hz					
Input leakage current	＜0.75mA/240VAC					
Line regulation (full load)	⩽±0.5%					
Voltage adjust range	V1:±5% of rated output voltage					V1:±10% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery			105~150%, shut off, re-power on to recover	105%~150%,hiccup mode, auto recovery	
Over voltage protection	115~150%, hiccup mode, auto recovery	115~150%, shut off, re-power on to recover			115%~150%, hiccup mode, auto recovery	
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min					
Rise time	＜50ms/115VAC; 50ms/230VAC			＜50ms/230VAC	＜50ms/115VAC; 50ms/230VAC	
Hold up time	⩾12ms/115VAC; ⩾40ms/230VAC	⩾10ms/115VAC; ⩾40ms/230VAC	⩾20ms/115VAC; ⩾40ms/230VAC	⩾20ms/230VAC	⩾20ms/115VAC; ⩾20ms/230VAC	⩾14ms/115VAC; ⩾14ms/230VAC
Operating temperature	-40℃~+70℃(refer to the derating curve)			-30℃~+70℃ (refer to the derating curve)		
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1					
Cooling method	convection			fan	convection	fan

HF100W-LDK

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF100W-LDK-L	15V	0.3~3.0A	±1%	150mV	86%
	-15V	0.3~3.0A	±2%	150mV	

HF150W-LDK

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF150W-LDK-L	15V	0.4~5.0A	±1%	150mV	86%
	-15V	0.4~5.0A	±3%	150mV	

HF200W-LDK

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF200W-LDK-L	15V	0.5~6.5A	±1%	150mV	86%
	-15V	0.5~6.5A	±3%	150mV	
HF200W-LDK-Q	24V	0.8~4.0A	±1%	150mV	90%
	-24V	0.8~4.0A	±3%	150mV	

HF300W-DM

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF300W-DM-L	15V	2.0~10.0A	±1%	150mV	85%
	-15V	2.0~10.0A	±10%	150mV	

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

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

HF300W-QV

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF300W-QV-A	24V	0.0~9.0A	±1%	240mV	86%
	15V	0.2~2.0A	±3%	150mV	
	-15V	0.2~2.0A	±10%	150mV	
	5V	0.0~2.0A	±3%	150mV	

HF600W-EQV

CE (LVD)

Model	DC Output		Tolerance	R&N	Efficiency
HF600W-EQV-A	24V	0.0~16.0A	±1%	150mV	86%
	5V	0.0~5.0A	±3%	150mV	
	15V	0.2~5.0A	±3%	150mV	
	-15V	0.2~5.0A	±10%	150mV	
HF600W-EQV-B	12V	0.0~29.0A	±1%	150mV	86%
	5V	0.0~5.0A	±3%	150mV	
	15V	0.2~5.0A	±3%	150mV	
	-15V	0.2~5.0A	±10%	150mV	
HF600W-EQV-C	24V	0.0~15.0A	±1%	150mV	86%
	12V	0.0~2.0A	±3%	150mV	
	15V	0.2~5.0A	±3%	150mV	
	-15V	0.2~5.0A	±10%	150mV	
HF600W-EQV-D	12V	0.0~29.0A	±1%	150mV	86%
	12V	0.0~1.2A	±3%	150mV	
	15V	0.2~5.0A	±3%	150mV	
	-15V	0.2~5.0A	±10%	150mV	

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

150W Wide Input Ranage Power Supply

- Input protection up to 528VAC
- Low profile with thickness only 30mm
- Standby power consumption＜1W
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610LSM 129 x 97 x 30mm

Input voltage range	170~264VAC (240~370VDC)
Input current	2.0A/230VAC
Input frequency	47~63Hz
Inrush current	＜40A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	110~170%, hiccup mode, delay protection, auto recovery
Over voltage protection	30~36VDC, 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/230VAC
Hold up time	≥20ms/230VAC
Operating temperature	-20℃~+70℃(refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight & MPQ	0.35kg, 40pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-LSW-26	26V	6.0A	0.5%	150mV	88%

200W Wide Input Ranage Power Supply - with PFC

- Input protection up to 380VAC (2 hours)
- High reliability
- PF＞0.94@230AC
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F615F 199 x 98 x 50mm

Input voltage range	176~264VAC (240~370VDC)
Input current	1.8A/230VAC
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	32~35VDC, 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/230VAC
Hold up time	≥20ms/230VAC
Operating temperature	-20℃~+70℃(refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	fan
Weight & MPQ	0.6kg, 20pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-SCW-30T	30V	6.7A	0.5%	200mV	85%

150W Wide Input Ranage Power Supply - with PFC

- Input protection up to 528VAC
- PF＞0.95@230AC
- Standby power consumption＜1W
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F615SCW 199 x 98 x 41.5mm

Input voltage range	170~264VAC (209~370VDC)
Input current	1.2A/230VAC
Input frequency	47~63Hz
Inrush current	＜40A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	150~220%, hiccup mode, delay protection, auto recovery
Over voltage protection	33~36VDC, 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/230VAC
Hold up time	≥20ms/230VAC
Operating temperature	-20℃~+70℃(refer to the derating curve)
Safety standards	meet UL508, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection
Weight & MPQ	0.52kg, 24pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF150W-SW-24	24V	6.5A	1.0%	150mV	86%

320W Wide Input Ranage Power Supply - with PFC

- Input protection up to 380VAC (2 hours)
- High reliability
- PF＞0.94@230AC
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F635A 215 x 115 x 50mm

Input voltage range	176~264VAC (240~370VDC)
Input current	2.7A/230VAC
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	32~35VDC, 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/230VAC
Hold up time	≥20ms/230VAC
Operating temperature	-20℃~+70℃(refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	fan
Weight & MPQ	1.0kg, 16pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF320W-SCW-30T	30V	10.7A	0.5%	200mV	85%

240W Single Output Power Supply

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F620 200 x 110 x 50mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.7mA/240VAC
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105%~130%, shut off, re-power on to recover
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	＜50ms/230VAC
Hold up time	≥20ms/230VAC
Operating temperature	-20℃~+70℃(refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection
Weight & MPQ	0.7kg, 20pcs

Model	DC Output		Load regul.	R&N	Efficiency
HF240W-S-5	5V	40.0A	1.0%	100mV	80%
HF240W-S-9	9V	22.0A	0.5%	120mV	82%
HF240W-S-12	12V	20.0A	0.5%	120mV	85%
HF240W-S-15	15V	15.0A	0.5%	150mV	85%
HF240W-S-24	24V	10.0A	0.5%	150mV	87%
HF240W-S-27	27V	8.0A	0.5%	150mV	87%
HF240W-S-36	36V	7.0A	0.5%	150mV	88%
HF240W-S-48	48V	5.0A	0.5%	150mV	88%
HF240W-S-110	110V	2.0A	0.5%	500mV	88%

350W~600W Dual Output Power Supply

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F635A 215 x 115 x 50mm

Model No.	HF350W-DM	HF450W-DM	HF600W-DM
Input voltage range	176~264VAC (240~370VDC)		
Input frequency	47~63Hz		
Inrush current	＜65A/230VAC, cold start		
Input leakage current	＜0.75mA/240VAC		
Line regulation	≤±2%		
Voltage adjust range	V1: ±5% of rated output voltage		
Overload protection	110%~155%, shut off, re-power on to recover		
Over voltage protection	115%~150%, shut off, re-power on to recover		
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min		
Rise time	＜800ms/230VAC		
Hold up time	≥20ms/230VAC		≥12ms/230VAC
Operating temperature	-20℃~+70℃(refer to the derating curve)		
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1		
Cooling method	fan		

Model	DC Output		Tolerance	R&N	Efficiency
HF350W-DM-A	220V	0.0~1.4A	±2%	2200mV	89%
	18V	0.2~1.0A	±2%	550mV	
HF450W-DM-A	220V	0.0~2.0A	±2%	1000mV	89%
	18V	0.0~1.0A	±2%	1000mV	
HF600W-DM-A	220V	0.0~2.8A	±2%	2200mV	89%
	18V	0.2~1.0A	±2%	550mV	

300W DC/DC for Railway Application

- Wide DC input range
- Half encapsulated, compact size
- Top brand components for key parts
- Free air convection cooling
- Protections: overload/ over voltage/ over temperature/ short circuit
- 3 years limited warranty
- F630G 216 x 97 x 40mm

Input voltage range	68~140VDC
Input current	3.2A/110VDC
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~135%, constant current limiting, auto recovery
Over voltage protection	115%~150%, shut off, re-power on to recover
Over temperature protection	shut down, auto recovery after temperature goes down
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.5KVAC/1min; O/P-F/G: 2.5KVAC/1min
Isolation resistance	＞100MΩ@500VDC
Rise time	50ms@full load (typical)
Operating temperature	-20℃~+70℃(refer to the derating curve)
Safety standards	design refer to UL/EN IEC62368-1, GB4943.1
Cooling method	convection
Weight	1.16kg

Model	DC Output		Load regul.	R&N	Efficiency
HF300W-SD110-24A	24V	12.5A	0.5%	150mV	88%

80W DC/DC DIN Rail Photovoltaic Power Supply

- Wide input range up to 1500VDC
- Transient power reaches 160W for 100ms
- Installed on DIN rail TS35/ 7.5 or 15
- Protections: input over voltage/ input under voltage/ overload/ over voltage/ short circuit
- 3 years limited warranty
- F612DRL 40.6 x 125.2 x 109.6mm

Input voltage range	300~1500VDC
Input current	0.4A/300VDC, 0.2A/800VDC
Inrush current	＜80A/800VDC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1500~1700VDC, recover @Vin＜1500VDC
Input under voltage protection	hiccup mode @Vin=200～270VDC, recover @Vin＞280VDC
Line regulation	≤±0.5%
Load regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105%~150%, hiccup mode, auto recovery
Over voltage protection	110%~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	≤9000ms/800VDC
Rise time	＜50ms/800VDC
Operating temperature	-40℃~+80℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
EMC standards	design refer to EN55032 Class A
Cooling method	convection
Weight	0.45kg

Model	DC Output		Tolerance	R&N	Efficiency
HF80W-DDRH-24	24V	3.4A	±1%	150mV	86%
HF80W-DDRH-48	48V	1.7A	±1%	240mV	87%

150W AC/DC Photovoltaic Power Supply

- Wide input range up to 1000VAC
- Top brand components for key parts
- Protections: input over voltage/ input under voltage/ overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	640~1000VAC
Input current	0.4A/800VAC
Inrush current	<80A/800VAC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1050~1150VAC, recover @Vin≤1000VAC (rated load)
Input under voltage protection	hiccup mode @Vin=550~630VAC, recover @Vin≥640VAC (rated load)
Line regulation	≤±1%
Load regulation	≤±2%
Voltage adjust range	±10%
Overload protection	115%~150%, shut down o/p voltage and intermittent startup, auto recovery
Over voltage protection	115%~150%, shut down o/p voltage and intermittent startup, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	≤9000ms/800VAC
Rise time	<80ms/800VAC
Hold up time	≥20ms/800VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	convection

Model	DC Output		Tolerance	R&N	Efficiency
HF150W-SHW-25	25V	6.5A	±3%	200mV	85%

300W AC/DC Photovoltaic Power Supply

- Wide input range up to 1000VAC
- Top brand components for key parts
- Protections: input over voltage/ input under voltage/ overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F635SM 199 x 98 x 50mm

Input voltage range	640~1000VAC
Input current	0.6A/800VAC
Inrush current	<80A/800VAC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1050~1150VAC, recover @Vin≤1000VAC (rated load)
Input under voltage protection	hiccup mode @Vin=550~630VAC, recover @Vin≥640VAC (rated load)
Line regulation	≤±1%
Load regulation	≤±2%
Voltage adjust range	±10%
Overload protection	115%~150%, shut down o/p voltage and intermittent startup, auto recovery
Over voltage protection	115%~150%, shut down o/p voltage and intermittent startup, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	≤9000ms/800VAC
Rise time	<80ms/800VAC
Hold up time	≥20ms/800VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	fan (startup @Ta≥55℃)

Model	DC Output		Tolerance	R&N	Efficiency
HF300W-SHW-25	25V	12.0A	±3%	200mV	85%

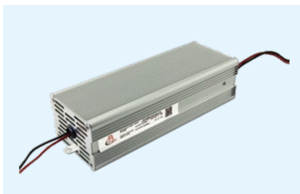
200W AC/DC Photovoltaic Power Supply

- Wide input range up to 1000VAC
- Top brand components for key parts
- Protections: input over voltage/ input under voltage/ overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	640~1000VAC
Input current	0.5A/800VAC
Inrush current	<80A/800VAC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1050~1150VAC, recover @Vin≤1000VAC (rated load)
Input under voltage protection	hiccup mode @Vin=550~630VAC, recover @Vin≥640VAC (rated load)
Line regulation	≤±1%
Load regulation	≤±2%
Voltage adjust range	±10%
Overload protection	115%~150%, shut down o/p voltage and intermittent startup, auto recovery
Over voltage protection	115%~150%, shut down o/p voltage and intermittent startup, auto recovery
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	≤9000ms/800VAC
Rise time	<80ms/800VAC
Hold up time	≥20ms/800VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	convection

Model	DC Output		Tolerance	R&N	Efficiency
HF200W-SHW-25	25V	8.0A	±3%	200mV	85%

200W/300W DC/DC Photovoltaic Power Supply



- Wide input range up to 1500VDC
- Top brand components for key parts
- Protections: input over voltage/ overload/ over voltage/ short circuit
- 3 years limited warranty
- F630HV 240 x 82 x 60mm

Input voltage range	400~1500VDC (max. 1600VDC without damage)
Input current	0.8A/400VDC
Inrush current	<80A/800VDC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1600~1720VDC, recover @Vin≤1500VDC
Line regulation	≤±0.5%
Load regulation	≤±1%
Voltage adjust range	24~27V
Overload protection	105%~130%, delay shut off, re-power on to recover
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	≤9000ms/800VDC
Rise time	<100ms/800VDC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	convection (200W), fan (300W)
Weight	0.88kg

Model	DC Output		Tolerance	R&N	Efficiency
HF200W-SDA1500-27	27V	7.4A	±3%	500mV	86%
HF300W-SDA1500-27	27V	11.2A	±3%	500mV	87%

80W DC/DC Photovoltaic Power Supply

- Wide input range up to 600VDC
- Transient power reaches 160W for 100ms
- Top brand components for key parts
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F608HD 156 x 56.6 x 41.1mm

Input voltage range	150~600VDC
Input current	0.7A/150VDC
Inrush current	＜80A/400VDC, cold start
Line regulation	⩽±0.5%
Load regulation	⩽±1%
Voltage adjust range	±10%
Overload protection	110%~150%, shut off, re-power on to recover
Over voltage protection	115%~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	⩽2000ms/400VDC
Rise time	＜50ms/400VDC
Operating temperature	-40℃~+80℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	convection

Model	DC Output		Tolerance	R&N	Efficiency
HF80W-SD600-24	24V	3.4A	±2%	150mV	86%

200W DC/DC Photovoltaic Power Supply

- Wide input range up to 1500VDC
- Top brand components for key parts
- Protections: input over voltage/ input under voltage / overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	400~1500VDC (max. 1600VDC without damage)
Input current	0.8A/400VDC, 0.4A/800VDC
Inrush current	＜80A/800VDC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1600~1720VDC, recover @Vin⩽1500VDC
Input under voltage protection	shut down o/p voltage @Vin=350±30VDC and intermittent startup
Line regulation	⩽±0.5%
Load regulation	⩽±1%
Voltage adjust range	24~27V
Overload protection	105%~150%, delay shut off, re-power on to recover
Over voltage protection	115%~150%, delay shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	⩽9000ms/800VDC
Rise time	＜100ms/800VDC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	convection

Model	DC Output		Tolerance	R&N	Efficiency
HF200W-SD1500-27	27V	7.5A	±2%	500mV	87%

150W DC/DC Photovoltaic Power Supply

- Wide input range up to 1500VDC
- Top brand components for key parts
- Protections: input over voltage/ input under voltage / overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	400~1500VDC (max. 1600VDC without damage)
Input current	0.7A/400VDC, 0.35A/800VDC
Inrush current	＜80A/800VDC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1600~1720VDC, recover @Vin⩽1500VDC
Input under voltage protection	shut down o/p voltage @Vin=350±30VDC and intermittent startup
Line regulation	⩽±0.5%
Load regulation	⩽±1%
Voltage adjust range	24~27V
Overload protection	105%~150%, delay shut off, re-power on to recover
Over voltage protection	115%~150%, delay shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	⩽9000ms/800VDC
Rise time	＜100ms/800VDC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	convection

Model	DC Output		Tolerance	R&N	Efficiency
HF150W-SD1500-27	27V	5.6A	±2%	500mV	88%

300W DC/DC Photovoltaic Power Supply

- Wide input range up to 1500VDC
- Top brand components for key parts
- Protections: input over voltage/ input under voltage / overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F635SM 199 x 98 x 50mm

Input voltage range	400~1500VDC (max. 1600VDC without damage)
Input current	0.9A/400VDC, 0.45A/800VDC
Inrush current	＜80A/800VDC, cold start
Input over voltage protection	shut down o/p voltage @Vin=1600~1720VDC, recover @Vin⩽1500VDC
Input under voltage protection	shut down o/p voltage @Vin=350±30VDC and intermittent startup
Line regulation	⩽±0.5%
Load regulation	⩽±1%
Voltage adjust range	24~27V
Overload protection	105%~150%, delay shut off, re-power on to recover
Over voltage protection	115%~150%, delay shut off, re-power on to recover
Withstand voltage	I/P-O/P: 4.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 1.0KVAC/1min
Start time	⩽9000ms/800VDC
Rise time	＜100ms/800VDC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	design refer to UL1741, EN62109-1
Cooling method	fan (startup @Ta⩾55℃)

Model	DC Output		Tolerance	R&N	Efficiency
HF300W-SD1500-27	27V	11.2A	±2%	500mV	87%

75W Dual Output Series - Universal Input

· Universal AC input / full range
· Low profile with thickness only 30mm
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty
· F605LSM 99 x 82 x 30mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2⩽±2%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾12ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF75W-LDK-C	12V	0.3~3.0A	150mV	82%
	-12V	0.3~3.0A	150mV	
HF75W-LDK-D	24V	0.5~2.5A	150mV	82%
	12V	0.4~2.0A	150mV	

150W Dual Output Series - Universal Input

· Universal AC input / full range
· Low profile with thickness only 30mm
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty
· F610LSM 129 x 97 x 30mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2⩽±3%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾10ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF150W-LDK-D	24V	1.0~5.0A	150mV	82%
	12V	0.6~3.0A	150mV	
HF150W-LDK-L	15V	0.4~5.0A	150mV	86%
	-15V	0.4~5.0A	150mV	

100W Dual Output Series - Universal Input

· Universal AC input / full range
· Low profile with thickness only 30mm
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty
· F6075LSM 99 x 97 x 30mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2⩽±2%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾12ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF100W-LDK-D	24V	0.8~4.0A	150mV	82%
	12V	0.6~3.0A	150mV	
HF100W-LDK-L	15V	0.3~3.0A	150mV	86%
	-15V	0.3~3.0A	150mV	

200W Dual Output Series - Universal Input

· AC input range selected by switch
· Low profile with thickness only 30mm
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty
· F615LSM 159 x 97 x 30mm

Input voltage range	85~132/170~264VAC selected by switch
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2⩽±3%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 2.0KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	＜50ms/115VAC; 50ms/230VAC
Hold up time	⩾20ms/115VAC; 40ms/230VAC
Operating temperature	-40℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF200W-LDK-L	15V	0.5~6.5A	150mV	86%
	-15V	0.5~6.5A	150mV	
HF200W-LDK-Q	24V	0.8~4.0A	150mV	90%
	-24V	0.8~4.0A	150mV	

*Other output voltage also available, please send inquiry

10W Dual Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F601N 100 x 58 x 32 mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (w/o)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, 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	0.2~1.8A	80mV	67%
	5V	0.1~1.0A	100mV	
HF10W-DL-B	5V	0.2~1.8A	80mV	72%
	12V	0.1~0.5A	120mV	
HF10W-DL-C	5V	0.2~1.8A	80mV	72%
	15V	0.1~0.5A	120mV	
HF10W-DL-D	5V	0.2~1.8A	80mV	70%
	24V	0.0~0.25A	150mV	

20W Dual Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F602 111 x 78 x 36 mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (w/o)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

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

*Other output voltage also available, please send inquiry

40W Dual Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39 mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (w/o)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

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

10W Triple Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F601N 100 x 58 x 32mm

Input voltage range	85~264VAC (120~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%,V2,V3:⩽±3%(with regulator); ⩽±10% (w/o)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF10W-TL-A	5V	0.3~1.5A	80mV	70%
	12V	0.0~0.2A	120mV	
	-12V	0.0~0.1A	120mV	
HF10W-TL-B	5V	0.2~1.3A	80mV	70%
	15V	0.0~0.2A	120mV	
	-15V	0.0~1.0A	120mV	
HF10W-TL-C	5V	0.2~1.4A	80mV	68%
	12V	0.0~0.15A	120mV	
	-5V	0.0~0.1A	80mV	

20W Triple Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F602 111 x 78 x 36mm

Input voltage range	85~264VAC (120~370VDC)
Input leakage current	＜0.5mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3%(with regulator); ≤±10% (w/o)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

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

70W Triple Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	85~264VAC (120~370VDC)
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3%(with regulator); ≤±10% (w/o)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

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

40W Triple Output Series - Universal Input

- Universal AC input / full range
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39 mm

Input voltage range	85~264VAC (120~370VDC)
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%,V_2,V_3:≤±3%(with regulator); ≤±10% (w/o)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

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

*Other output voltage also available, please send inquiry

100W Triple Output Series - Universal Input

- AC input range selected by switch
- High reliability
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610 199 x 98 x 39mm

Input voltage range	85~132VAC/ 170~264VAC selected by switch
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~130%, shut off, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
EMC standards	meet EN55032, EN55035, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Cooling method	convection

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

35W Dual Output Series

· Compact size, high reliability
· Top brand components for key parts
· Built-in EMI filter
· Protections: overload/ short circuit
· 3 years limited warranty
· F6035SET 98.5 x 82 x 35mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2≤±10%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF35W-DE-B	5V	0.5~4.0A	100mV	75%
	12V	0.2~2.0A	120mV	
HF35W-DE-C	5V	0.5~4.0A	100mV	75%
	24V	0.1~1.0A	150mV	
HF35W-DE-D	12V	0.2~2.0A	120mV	78%
	12V	0.2~2.0A	120mV	

75W Dual Output Series

· Compact size, high reliability
· Top brand components for key parts
· Built-in EMI filter
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty
· F603 129 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2≤±10%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF75W-DE-E	12V	0.2~5.0A	120mV	83%
	-12V	0.2~2.5A	120mV	
HF75W-DEK-A	5V	0.8~8.0A	100mV	82%
	12V	0.6~4.0A	150mV	
HF75W-DEK-B	5V	0.3~3.0A	100mV	81%
	24V	0.3~1.8A	150mV	

55W Dual Output Series

· Compact size, high reliability
· Top brand components for key parts
· Built-in EMI filter
· Protections: overload/ short circuit
· 3 years limited warranty
· F6055SEL 99 x 97 x 38mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2≤±10%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF55W-DE-G	5V	0.5~7.0A	120mV	78%
	5V	0.2~3.0A	150mV	
HF55W-DE-L	15V	0.2~2.0A	150mV	85%
	-15V	0.2~2.0A	150mV	
HF55W-DE-S	12V	0.2~2.3A	120mV	84%
	-12V	0.2~2.3A	120mV	

100W Dual Output Series

· Compact size, high reliability
· Top brand components for key parts
· Built-in EMI filter
· Protections: overload/ over voltage/ short circuit
· 3 years limited warranty
· F605 160 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2≤±10%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF100W-DE-G	24V	0.8~4.0A	150mV	85%
	5V	0.0~2.0A	200mV	
HF100W-DE-L	15V	1.0~5.0A	150mV	84%
	-15V	0.5~4.0A	150mV	
HF100W-DEK-A	5V	2.0~10.0A	150mV	82%
	12V	0.5~5.0A	180mV	

*Other output voltage also available, please send inquiry

10W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F601N 100 x 58 x 32mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by zener diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF10W-D-A	5V	0.3~1.5A	80mV	72%
	5V	0.0~0.3A	100mV	
HF10W-D-B	5V	0.2~1.5A	80mV	72%
	12V	0.0~0.3A	120mV	
HF10W-D-D	5V	0.2~1.2A	80mV	72%
	24V	0.0~0.2A	150mV	
HF10W-D-L	5V	0.2~1.0A	100mV	72%
	-5V	0.2~1.0A	150mV	

20W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F602 111 x 78 x 36mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by zener diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF20W-D-A	5V	0.6~3.0A	100mV	67%
	5V	0.0~1.0A	150mV	
HF20W-D-B	5V	0.4~3.0A	100mV	75%
	12V	0.0~1.0A	150mV	
HF20W-D-D	5V	0.4~2.0A	100mV	76%
	24V	0.0~0.5A	150mV	
HF20W-D-F	12V	0.3~1.6A	100mV	80%
	12V	0.0~0.5A	120mV	

*Other output voltage also available, please send inquiry

35W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by zener diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF35W-D-B	5V	0.5~5.0A	100mV	75%
	12V	0.0~2.0A	150mV	
HF35W-D-C	5V	0.5~5.0A	100mV	76%
	24V	0.0~1.0A	150mV	
HF35W-D-K	15V	0.2~1.2A	120mV	82%
	-15V	0.0~1.2A	150mV	
HF35W-D-M	12V	0.2~2.5A	150mV	77%
	-12V	0.0~1.0A	200mV	

55W~70W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF55W-D-A	5V	0.5~7.0A	150mV	75%
	12V	0.0~2.0A	150mV	
HF55W-D-B	5V	0.5~6.0A	150mV	78%
	24V	0.0~2.0A	150mV	
HF55W-D-L	15V	0.4~2.0A	150mV	81%
	-15V	0.0~2.0A	180mV	
HF55W-D-S	12V	0.5~2.3A	150mV	81%
	-12V	0.0~2.3A	150mV	
HF70W-D-G	24V	0.5~2.5A	150mV	81%
	12V	0.0~2.0A	150mV	
HF70W-D-H	5V	0.0~3.0A	150mV	78%
	24V	0.0~2.0A	200mV	

100W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610 199 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3%
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~130%, shut off, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF100W-D-A	5V	2.0~10.0A	150mV	76%
	12V	0.0~4.0A	200mV	
HF100W-D-G	24V	0.0~4.0A	150mV	80%
	5V	0.0~3.0A	200mV	
HF100W-D-H	24V	0.6~3.0A	150mV	82%
	12V	0.0~2.0A	200mV	
HF100W-D-L	15V	0.0~3.0A	150mV	78%
	-15V	0.0~3.0A	200mV	

200W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F620 200 x 110 x 50mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3%
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~130%, shut off, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF200W-D-A	24V	1.6~8.0A	150mV	85%
	12V	0.0~3.0A	150mV	
HF200W-D-D	24V	1.8~9.0A	150mV	84%
	5V	0.0~2.0A	100mV	
HF200W-D-E	12V	2.4~12.0A	150mV	84%
	24V	0.0~3.0A	150mV	
HF200W-D-V	28V	1.0~7.0A	150mV	85%
	9V	0.0~3.0A	150mV	

150W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3%
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~130%, shut off, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF150W-D-D	24V	0.8~4.0A	150mV	83%
	12V	0.0~5.0A	200mV	
HF150W-D-G	24V	0.0~6.0A	240mV	82%
	5V	0.0~3.0A	100mV	
HF150W-D-L	15V	1.0~5.0A	150mV	86%
	-15V	1.0~5.0A	150mV	
HF150W-D-Q	24V	0.8~4.0A	150mV	87%
	-24V	0.8~4.0A	150mV	

300W~400W Dual Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in fan speed control
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F640A 241 x 124 x 65mm

Input voltage range	170~264VAC (240~370VDC)
Input frequency	47~63Hz
Inrush current	＜65A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V1:⩽±1%, V2⩽±3%
Voltage adjust range	V1:±5% of rated output voltage
Overload protection	105~130%, current limiting, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Hold up time	20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	fan

Model	DC Output		R&N	Efficiency
HF300W-D-A	24V	2.0~11.0A	150mV	85%
	5V	0.0~2.5A	100mV	
HF300W-D-B	24V	2.0~11.0A	150mV	86%
	12V	0.0~3.0A	120mV	
HF300W-D-H	24V	2.0~10.0A	150mV	86%
	10V	0.0~2.0A	200mV	
HF400W-D-A	24V	1.0~16.0A	150mV	86%
	12V	0.0~1.0A	120mV	

*Other output voltage also available, please send inquiry

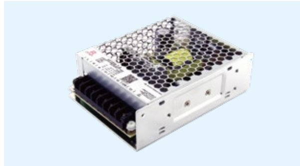
10W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F601N 100 x 58 x 32mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2,V_3:⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by zener diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF10W-T-A	5V	0.3~1.5A	80mV	72%
	12V	0.0~0.2A	120mV	
	-12V	0.0~0.1A	120mV	
HF10W-T-B	5V	0.2~1.3A	80mV	74%
	15V	0.0~0.2A	120mV	
	-15V	0.0~0.1A	120mV	
HF10W-T-C	5V	0.2~1.2A	80mV	70%
	12V	0.0~0.25A	120mV	
	-5V	0.0~0.2A	80mV	

35W Triple Output Standard Series



- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2,V_3:⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF35W-T-A	5V	0.5~4.0A	80mV	74%
	12V	0.0~1.2A	120mV	
	-12V	0.0~1.0A	120mV	
HF35W-T-B	5V	0.5~4.0A	80mV	75%
	15V	0.0~0.5A	120mV	
	-15V	0.0~0.5A	120mV	
HF35W-T-C	5V	0.5~3.0A	80mV	72%
	12V	0.0~1.0A	120mV	
	-5V	0.0~1.0A	80mV	

20W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F602 111 x 78 x 36mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	＜30A/230VAC, cold start
Input leakage current	＜0.5mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2,V_3:⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, clamping by zener diode
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF20W-T-A	5V	0.3~3.0A	80mV	74%
	12V	0.0~1.0A	120mV	
	-12V	0.0~0.5A	120mV	
HF20W-T-B	5V	0.4~2.0A	80mV	74%
	15V	0.0~0.35A	120mV	
	-15V	0.0~0.35A	120mV	
HF20W-T-C	5V	0.4~2.0A	80mV	72%
	12V	0.0~0.5A	120mV	
	-5V	0.0~1.0A	80mV	

55W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	＜45A/230VAC, cold start
Input leakage current	＜0.75mA/240VAC
Line regulation	⩽±0.5%
Voltage tolerance	V_1:⩽±1%, V_2,V_3:⩽±3% (with regulator); ⩽±10% (without regulator)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF55W-T-A	5V	1.0~6.0A	80mV	72%
	12V	0.0~1.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF55W-T-B	5V	1.0~5.0A	80mV	75%
	15V	0.0~1.0A	120mV	
	-15V	0.0~1.0A	120mV	
HF55W-T-C	5V	1.0~5.0A	80mV	72%
	12V	0.0~1.5A	120mV	
	-5V	0.0~2.0A	80mV	

*Other output voltage also available, please send inquiry

70W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	<45A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3% (with regulator); ≤±10% (without regulator)
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-30℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF70W-T-A	5V	0.8~6.0A	80mV	76%
	12V	0.0~2.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF70W-T-B	5V	1.0~7.0A	80mV	77%
	15V	0.0~1.5A	120mV	
	-15V	0.0~1.0A	120mV	
HF70W-T-E	5V	1.0~5.0A	80mV	77%
	12V	0.0~1.0A	150mV	
	24V	0.0~1.0A	150mV	

150W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	<45A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~130%, shut off, re-power on recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF150W-T-A	24V	0.5~4.0A	150mV	80%
	12V	0.0~3.0A	120mV	
	5V	0.0~3.0A	80mV	
HF150W-T-B	24V	1.0~5.0A	150mV	82%
	12V	0.0~1.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF150W-T-L	5V	1.0~6.0A	80mV	76%
	12V	0.1~4.0A	120mV	
	24V	0.0~2.5A	150mV	

100W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 3 years limited warranty
- F610 199 x 98 x 39mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	<45A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~130%, shut off, re-power on recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		R&N	Efficiency
HF100W-T-A	5V	2.0~12.0A	80mV	75%
	12V	0.0~2.0A	120mV	
	-12V	0.0~1.0A	120mV	
HF100W-T-B	5V	2.0~10.0A	80mV	75%
	15V	0.0~2.0A	120mV	
	-15V	0.0~1.0A	120mV	
HF100W-T-D	5V	1.0~6.0A	80mV	76%
	12V	0.0~2.0A	120mV	
	24V	0.0~2.0A	150mV	

300W Triple Output Standard Series

- High reliability
- Top brand components for key parts
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F640A 241 x 124 x 65mm

Input voltage range	170~264VAC (240~370VDC)
Inrush current	<65A/230VAC, cold start
Input leakage current	<0.75mA/240VAC
Line regulation	≤±0.5%
Voltage tolerance	V_1:≤±1%, V_2,V_3:≤±3%
Voltage adjust range	V_1:±5% of rated output voltage
Overload protection	105~130%, current limiting, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 3.0KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise, hold up time	50ms, 20ms@full load (typical)
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1
Cooling method	fan

Model	DC Output		R&N	Efficiency
HF300W-T-A	24V	2.0~11.0A	150mV	82%
	12V	0.0~2.0A	150mV	
	12V	0.0~1.0A	150mV	
HF300W-T-B	27V	2.0~10.0A	200mV	83%
	12V	0.0~3.0A	150mV	
	5V	0.0~2.0A	80mV	
HF300W-T-L	32V	1.0~8.0A	200mV	82%
	12V	0.0~2.0A	150mV	
	24V	0.0~1.0A	200mV	

*Other output voltage also available, please send inquiry

10W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 3 years limited warranty
- F601N 100 x 58 x 32mm

Input voltage range	12VDC(10~18), 24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

30W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39mm

Input voltage range	12VDC(10~18), 24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

20W DC/DC Series

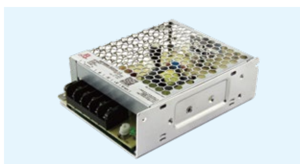
- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F602 111 x 78 x 36mm

Input voltage range	12VDC(10~18), 24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

40W DC/DC Series



- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F603 129 x 98 x 39mm

Input voltage range	24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

50W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	12VDC(10~18), 24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

70W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

60W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F605 160 x 98 x 39mm

Input voltage range	12VDC(10~18), 24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	single output: ±10%; multi-output: V1:±5%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, hiccup mode, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

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

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

100W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F610 199 x 98 x 39mm

Input voltage range	24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF100W-SD**-5	5V	20.0A	1.0%	100mV	±1%
HF100W-SD**-12	12V	8.5A	0.5%	120mV	±1%
HF100W-SD**-24	24V	4.2A	0.5%	150mV	±1%
HF100W-SD**-48	48V	2.1A	0.5%	150mV	±1%

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

150W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ over voltage/ short circuit
- 3 years limited warranty
- F615 199 x 98 x 50mm

Input voltage range	24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~150%, hiccup mode, auto recovery
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF150W-SD**-12	12V	12.5A	0.5%	120mV	±1%
HF150W-SD**-15	15V	10.0A	0.5%	150mV	±1%
HF150W-SD**-24	24V	6.3A	0.5%	150mV	±1%
HF150W-SD**-48	48V	3.1A	0.5%	150mV	±1%

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

300W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Forced air cooling by built-in fan
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F635A 215 x 115 x 50mm

Input voltage range	24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~150%, shut off, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	fan

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

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

200W DC/DC Series

- 2:1 wide input range
- Top brand components for key parts
- Built-in EMI filter
- Protections: overload/ short circuit
- 3 years limited warranty
- F620 200 x 110 x 50mm

Input voltage range	24VDC(18~36), 48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~150%, current limiting, auto recovery
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	convection

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF200W-SD**-5	5V	30.0A	1.0%	100mV	±1%
HF200W-SD**-12	12V	16.7A	0.5%	120mV	±1%
HF200W-SD**-24	24V	8.4A	0.5%	150mV	±1%
HF200W-SD**-48	48V	4.2A	0.5%	150mV	±1%

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

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

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

500W~1000W DC/DC Series

- 2:1 wide input range
- Forced air cooling by built-in fan
- Protections: overload/ over voltage/ short circuit/ over temperature
- 3 years limited warranty
- F650N 250 x 160 x 87mm

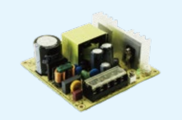
Input voltage range	48VDC(36~72), 110VDC(72~144)
Line regulation	≤±0.5%
Voltage adjust range	±10%
Overload protection	105~130%, shut off, re-power on to recover
Over voltage protection	115~150%, shut off, re-power on to recover
Withstand voltage	I/P-O/P: 1.5KVAC/1min; I/P-F/G: 1.5KVAC/1min; O/P-F/G: 0.5KVAC/1min
Rise time	50ms@full load (typical)
Isolation resistance	>100MΩ@500VDC
Operating temperature	-20℃~+70℃ (refer to the derating curve)
Safety standards	design meet UL/EN IEC62368-1, GB4943.1
Cooling method	fan

Model	DC Output		Load regul.	R&N	Voltage Tol.
HF500W-SD**-12	12V	42.0A	0.5%	150mV	±1%
HF500W-SD**-24	24V	21.0A	0.5%	150mV	±1%
HF500W-SD**-48	48V	11.0A	0.5%	240mV	±1%
HF600W-SD**-48	48V	13.0A	0.5%	240mV	±1%
HF700W-SD**-24	24V	29.0A	0.5%	150mV	±1%
HF800W-SD**-24	24V	35.0A	0.5%	150mV	±1%
HF800W-SD**-48	48V	17.0A	0.5%	240mV	±1%
HF1000W-SD**-24	24V	42.0A	0.5%	150mV	±1%
HF1000W-SD**-48	48V	21.0A	0.5%	240mV	±1%

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

Features

- Universal AC input / full range
- High reliability
- Mminiature PCB structure
- Built-in EMI filter
- Top brand components for key parts
- Protections: overload/ over voltage/ short circuit
- Free air cooling convection
- 3 years limited warranty

Product picture							
Model No.	HF5W-SPL	HF15W-SPL	HF25W-SPL	HF35W-SPL	HF45W-SPL	HF65W-SPL	HF200W-SP
Dimension (mm)	76×45×22	100×46.2×22	107×61×28	107×61×28	127×76.2×27	127×76.2×42	100×100×38
Weight	0.05kg	0.09kg	0.13kg	0.16kg	0.19kg	0.25kg	0.25kg
Input voltage range	85~264VAC (120~370VDC)						170~264VAC
Inrush current	＜30A/230VAC, cold start				＜45A/230VAC, cold start		＜65A/230VAC, cold start
Voltage adjust range	±10%						
Overload protection	105~150%, hiccup mode, auto recovery						105~200%, hiccup mode, auto recovery
Over voltage protection	--	clamping by diode	115~150%, hiccup mode, auto recovery		115~150%, shut off, re-power on to recover		
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 time	50ms@full load (typical)						
Hold up time	20ms@full load (typical)						
Operating temperature	-30℃~+70℃ (refer to the derating curve)						
Safety standards	meet UL62368-1, EN IEC62368-1, GB4943.1						
EMC standards	meet EN55032, EN55035, EN61000-3-2, 3, EN61000-4-2,3,4,5,6,8,11						meet EN55032, EN55035
Connection	2P/5.08mm, 2P/2.54mm pitch	2P/5.08mm, 2P/3.96mm pitch	2P/7.92mm, 4P/3.96mm pitch		2P/7.92mm, 6P/3.96mm pitch		5P/8.25mm, screw terminal
Cooling method	convection						convection (150W) fan (200W)

HF5W-SPL

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

HF15W-SPL

Model	DC Output		Load regul.	R&N	Efficiency
HF15W-SPL-5	5V	3.0A	1.0%	80mV	73%
HF15W-SPL-12	12V	1.3A	0.5%	120mV	80%
HF15W-SPL-24	24V	0.65A	0.5%	150mV	81%
HF15W-SPL-48	48V	0.32A	0.5%	150mV	85%

HF25W-SPL

Model	DC Output		Load regul.	R&N	Efficiency
HF25W-SPL-5	5V	5.0A	1.0%	80mV	74%
HF25W-SPL-12	12V	2.1A	0.5%	120mV	81%
HF25W-SPL-24	24V	1.1A	0.5%	150mV	81%
HF25W-SPL-48	48V	0.5A	0.5%	150mV	84%

HF35W-SPL

Model	DC Output		Load regul.	R&N	Efficiency
HF35W-SPL-5	5V	7.0A	1.0%	80mV	76%
HF35W-SPL-12	12V	2.9A	0.5%	120mV	81%
HF35W-SPL-24	24V	1.5A	0.5%	150mV	84%
HF35W-SPL-48	48V	0.7A	0.5%	150mV	86%

HF45W-SPL

Model	DC Output		Load regul.	R&N	Efficiency
HF45W-SPL-5	5V	8.0A	1.0%	80mV	75%
HF45W-SPL-12	12V	3.7A	0.5%	120mV	83%
HF45W-SPL-24	24V	1.9A	0.5%	150mV	85%
HF45W-SPL-48	48V	1.0A	0.5%	150mV	86%

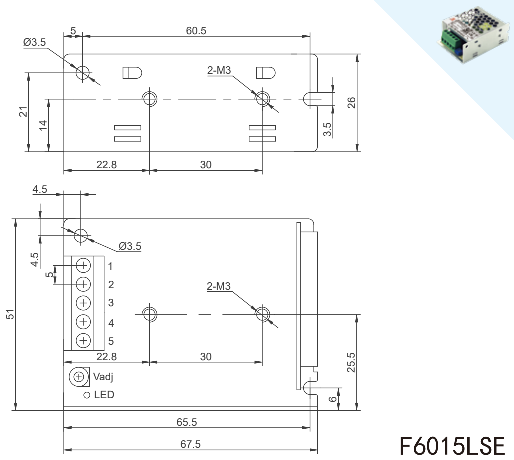
HF65W-SPL

Model	DC Output		Load regul.	R&N	Efficiency
HF65W-SPL-5	5V	10.0A	1.0%	80mV	76%
HF65W-SPL-12	12V	5.2A	0.5%	120mV	85%
HF65W-SPL-24	24V	2.7A	0.5%	150mV	86%
HF65W-SPL-48	48V	1.35A	0.5%	150mV	87%

HF200W-SP

Model	DC Output		Load regul.	R&N	Efficiency
HF200W-SP-24	24V	7.0A	0.5%	200mV	88%
HF200W-SP-48	48V	4.2A	0.5%	240mV	90%

Custom Design Welcome!



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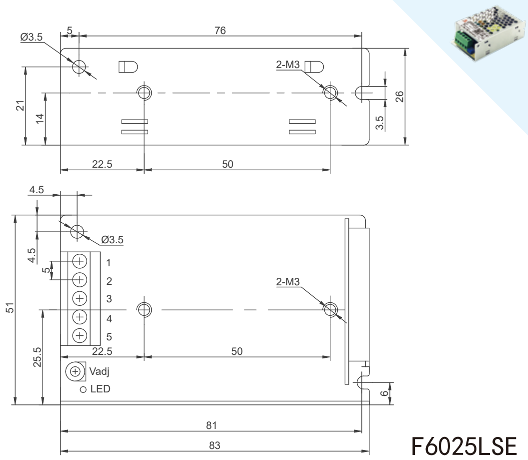

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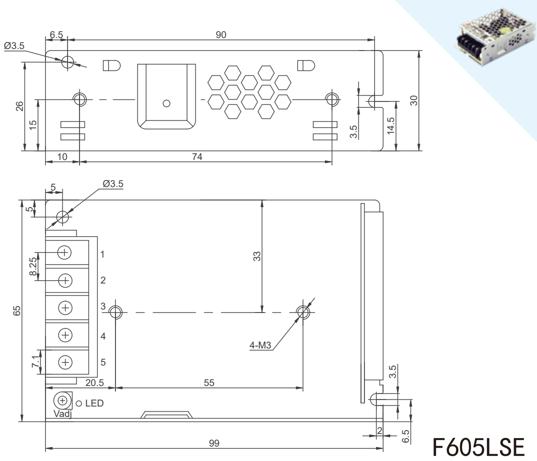

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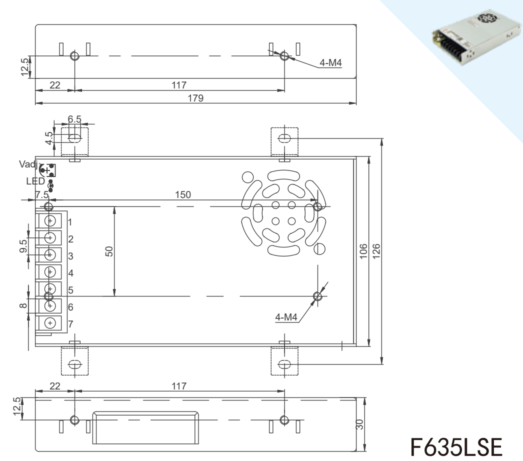

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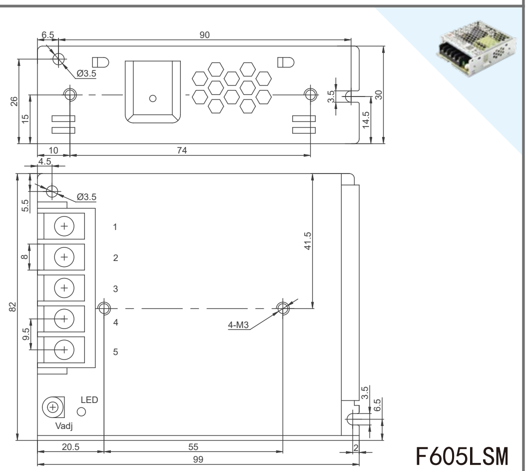

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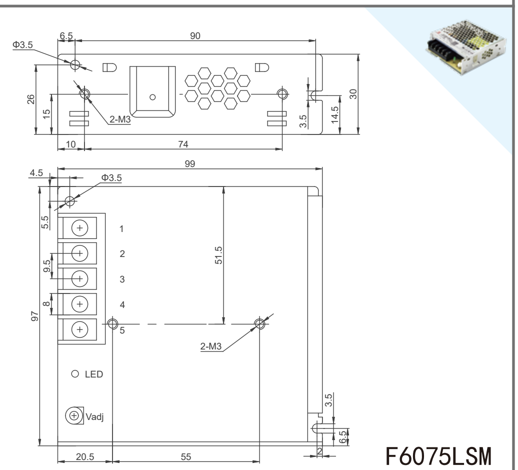

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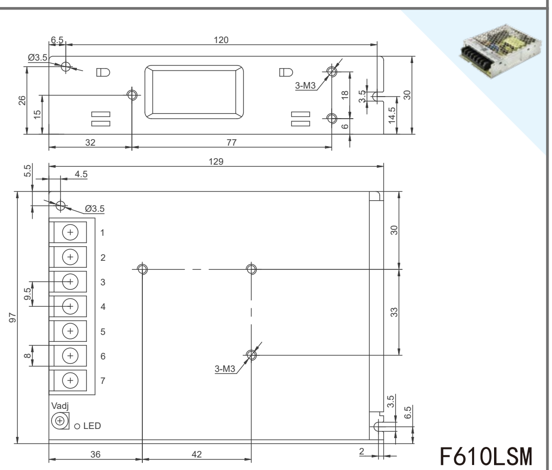

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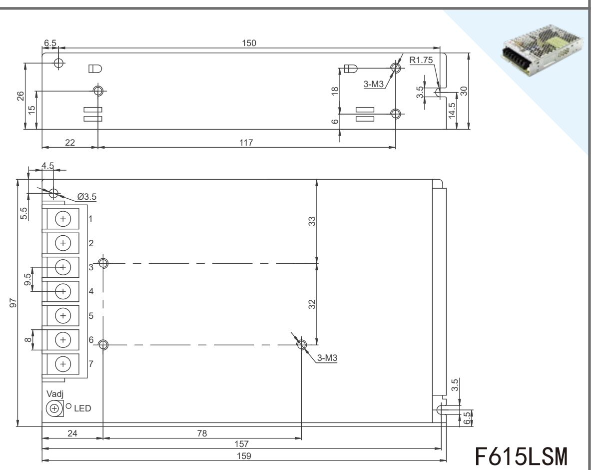

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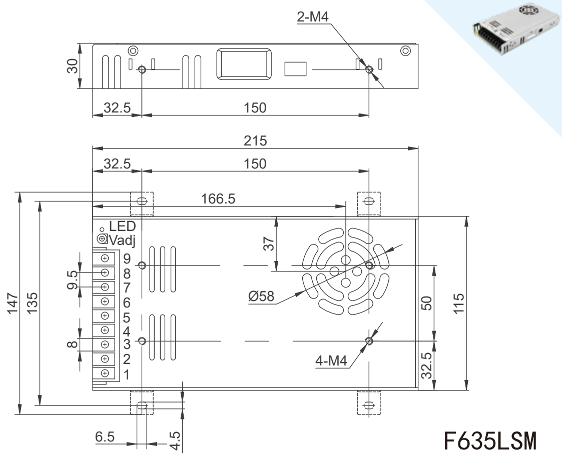

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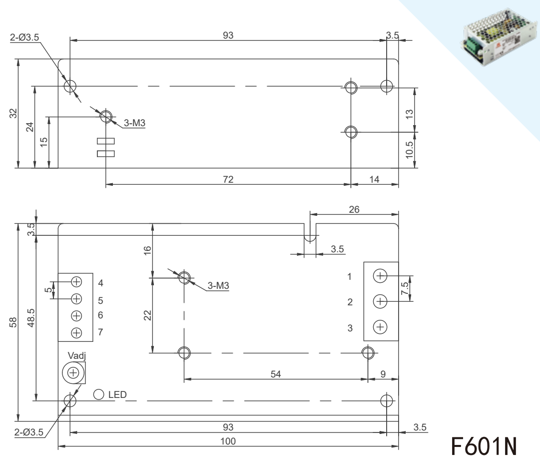

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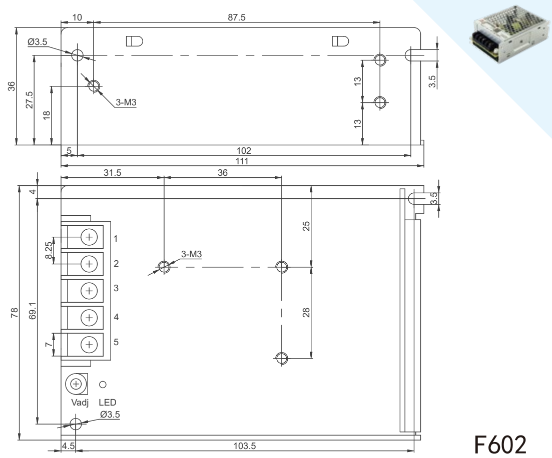

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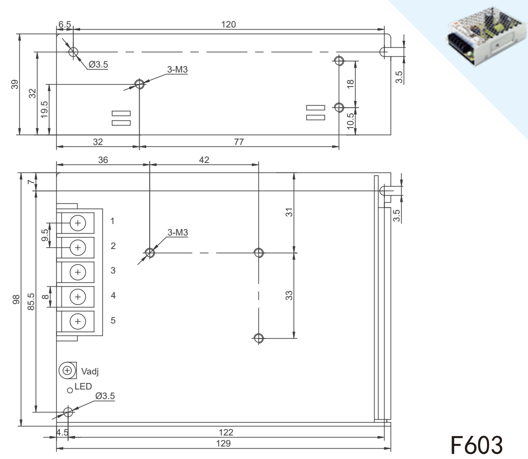

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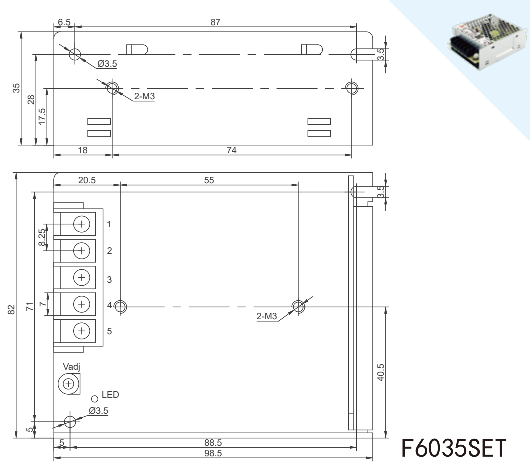

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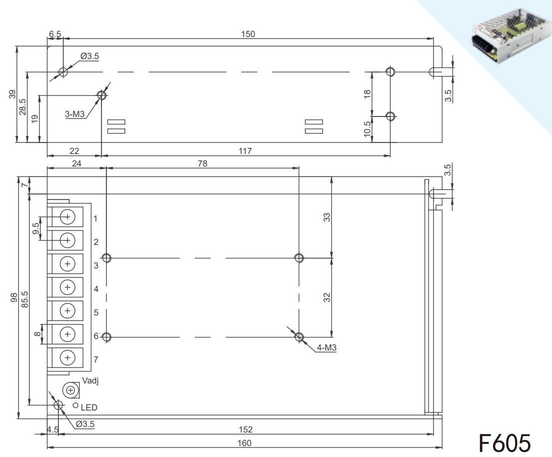

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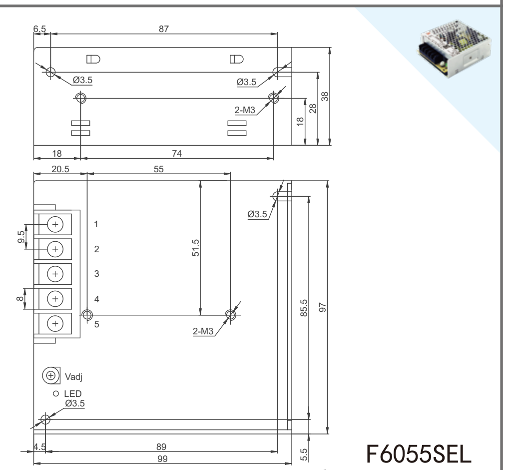

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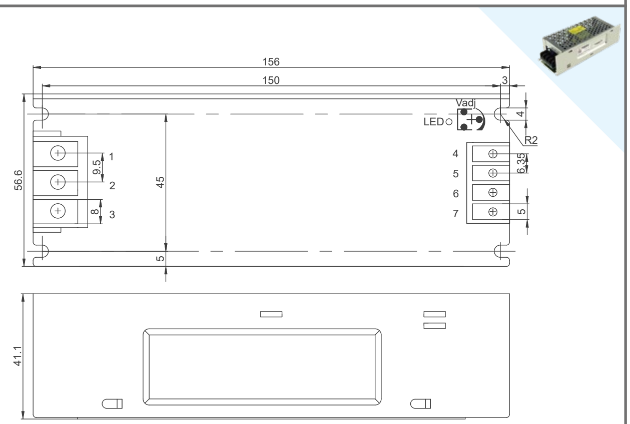

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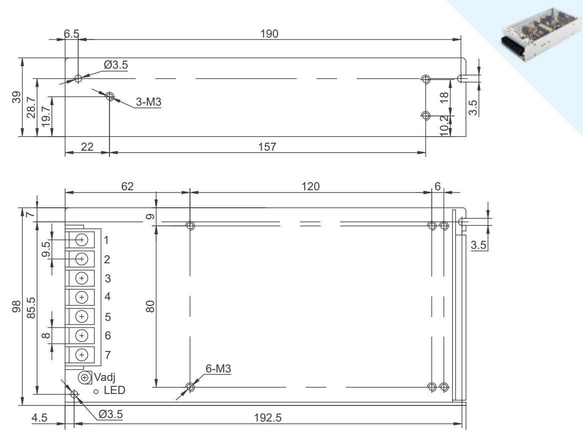

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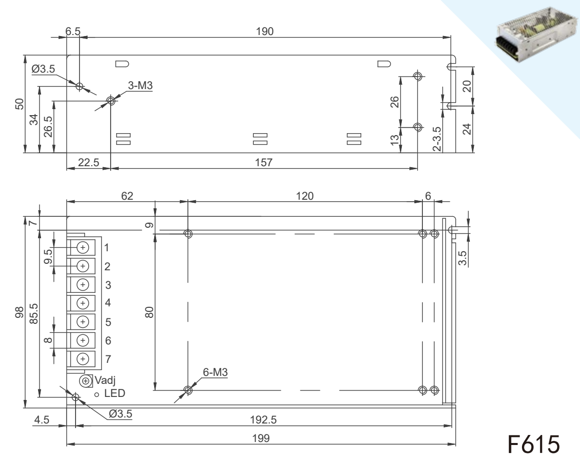

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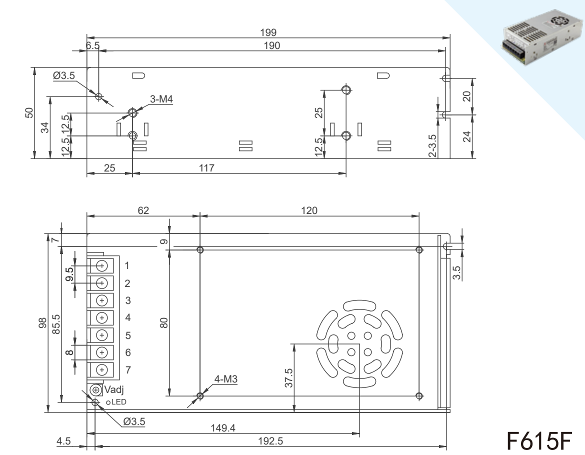

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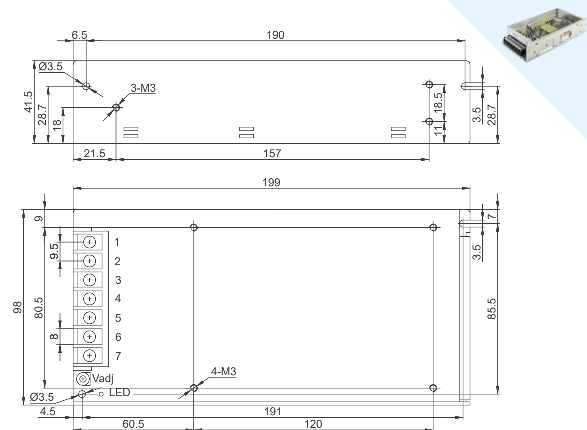

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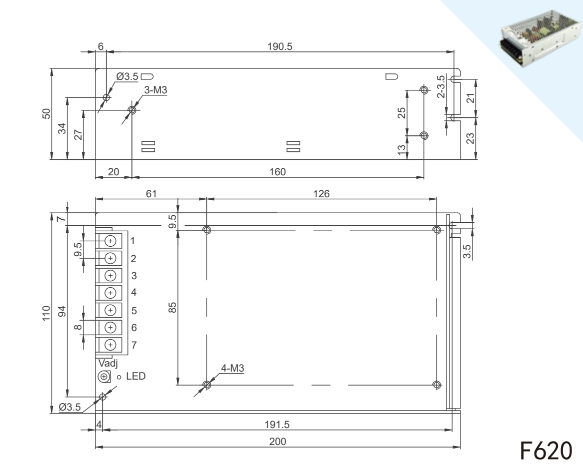

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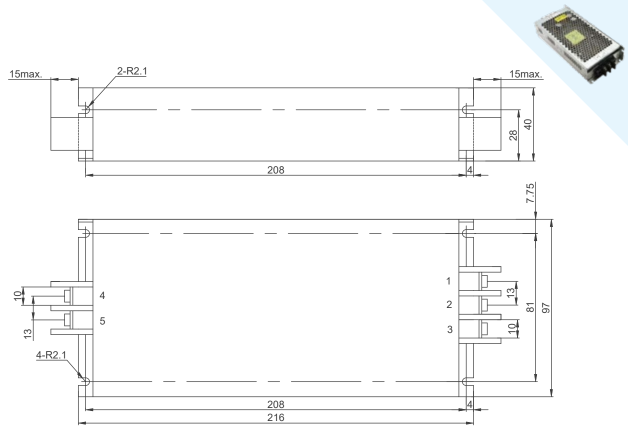

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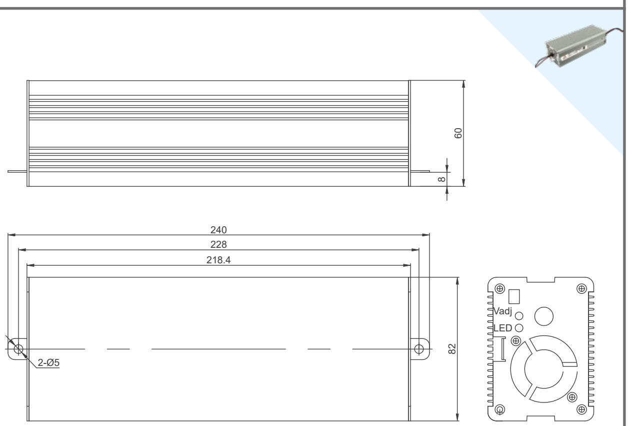

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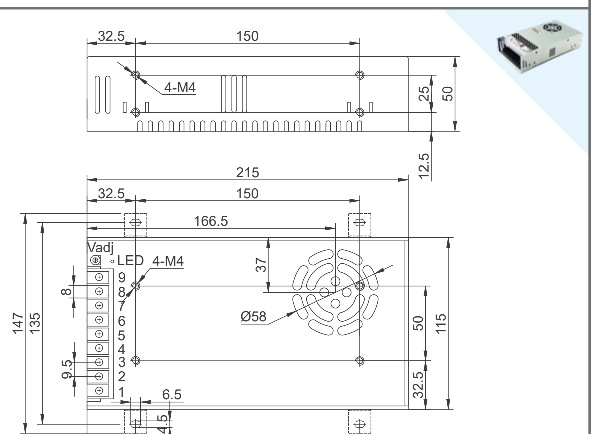

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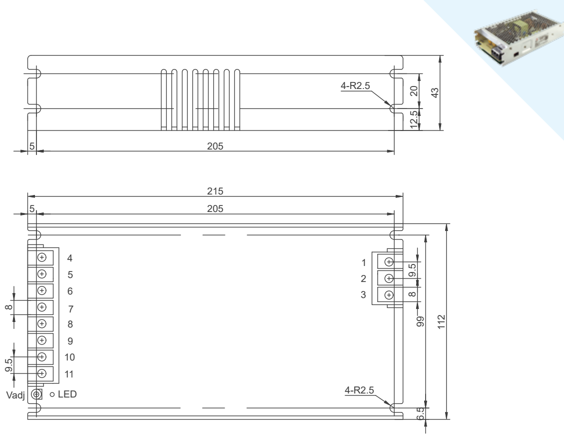

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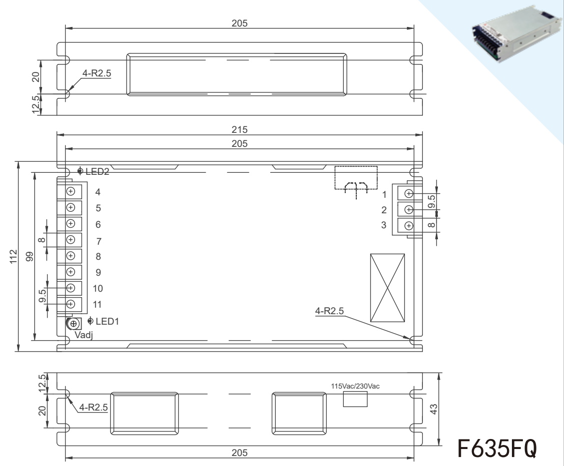

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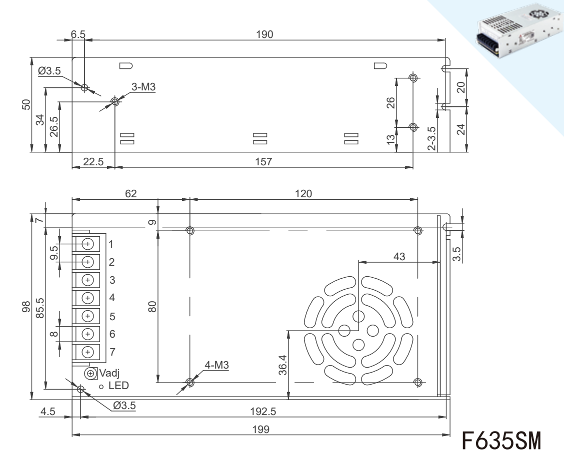

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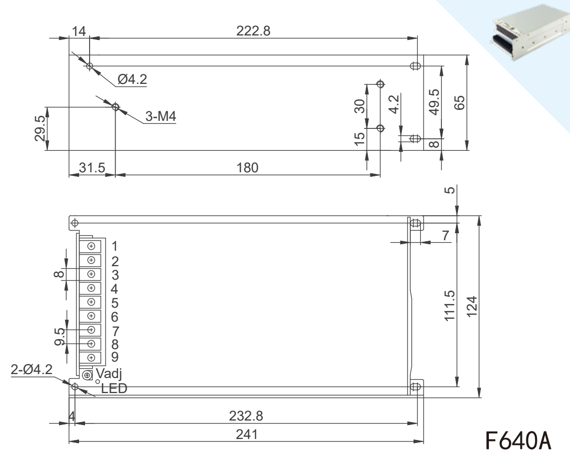

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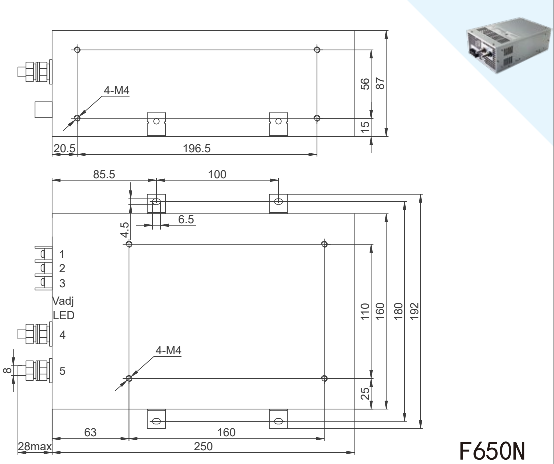

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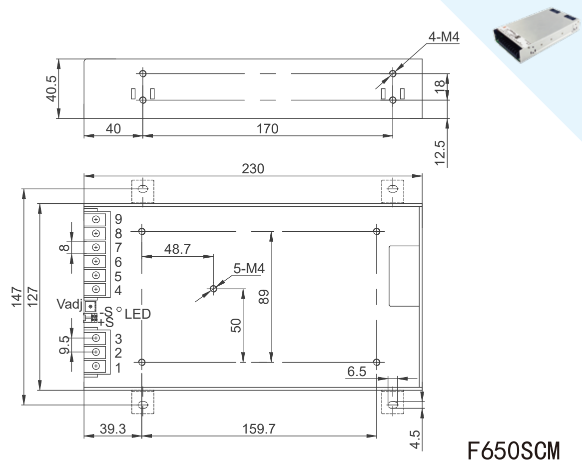

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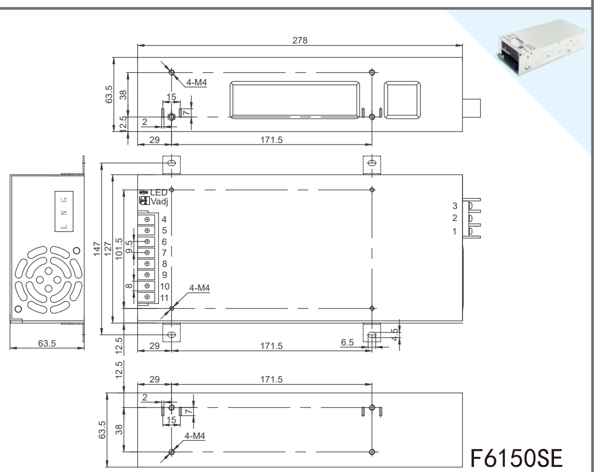

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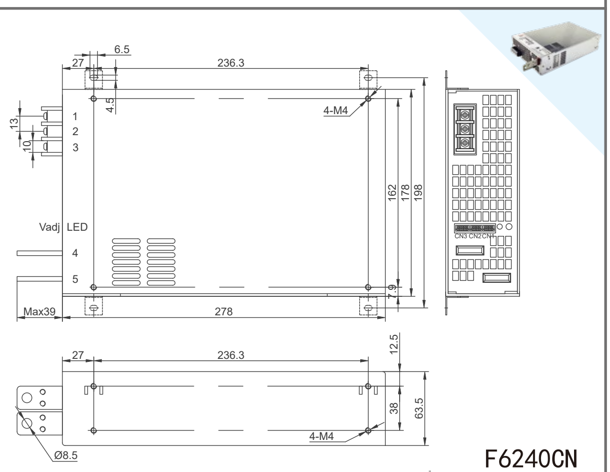

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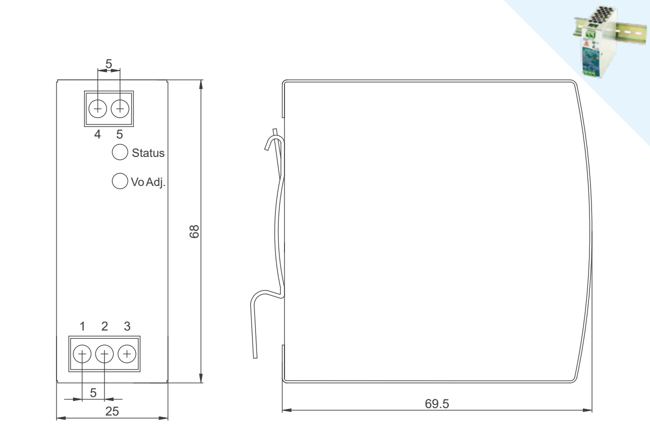

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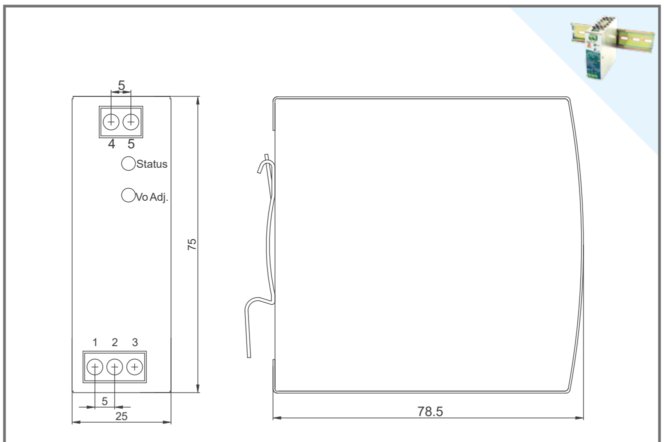

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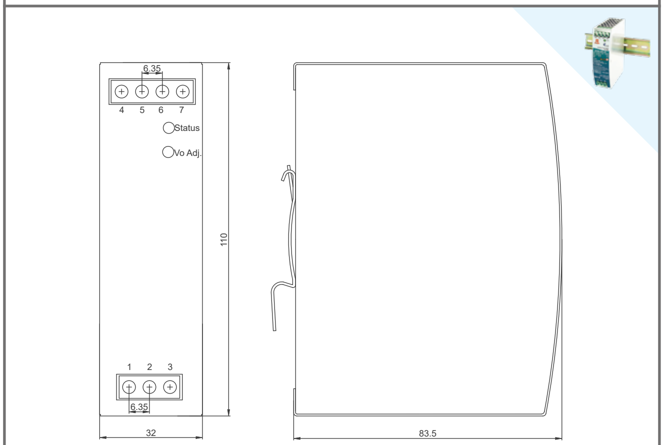

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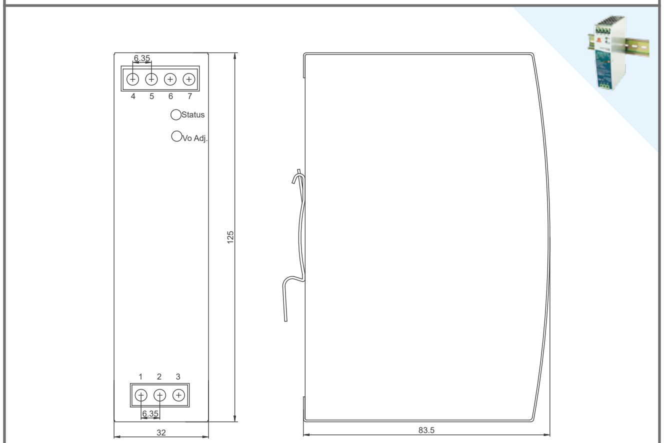

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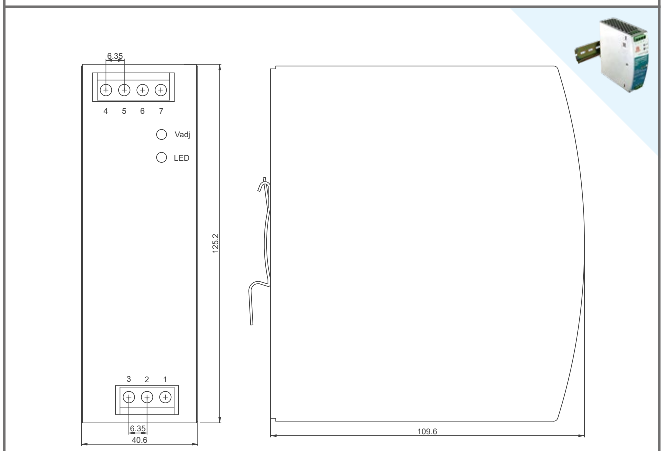

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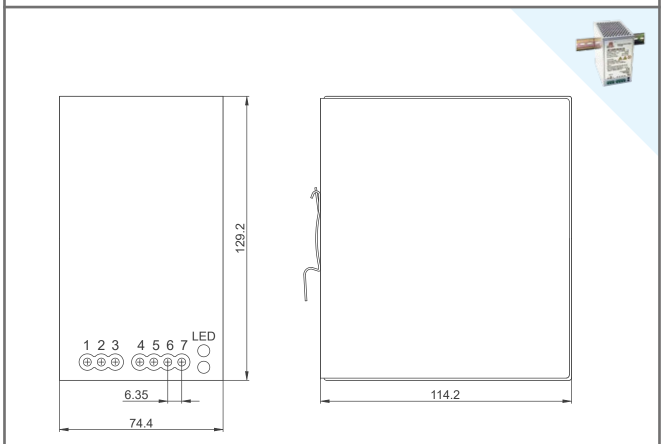

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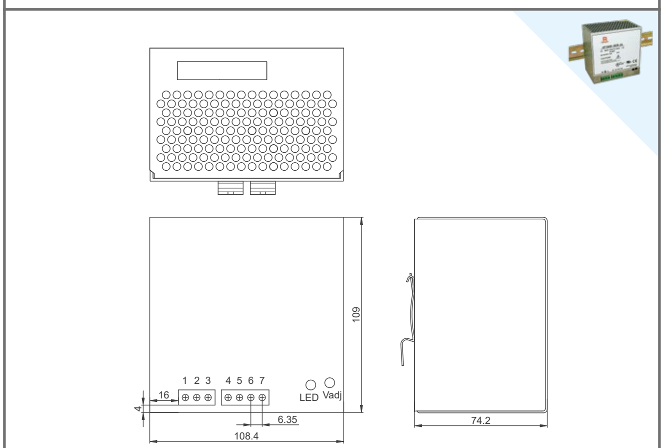

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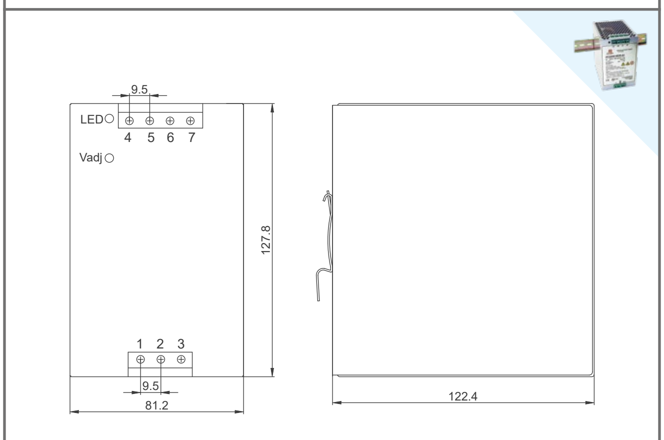

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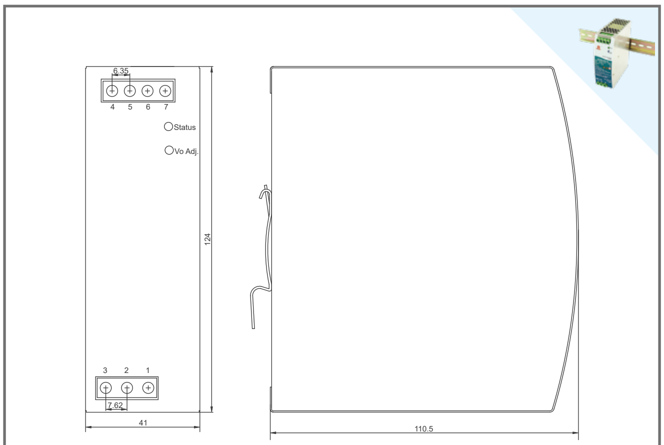

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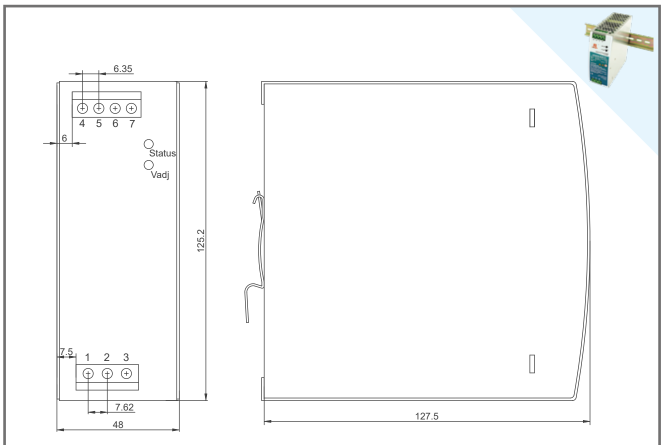

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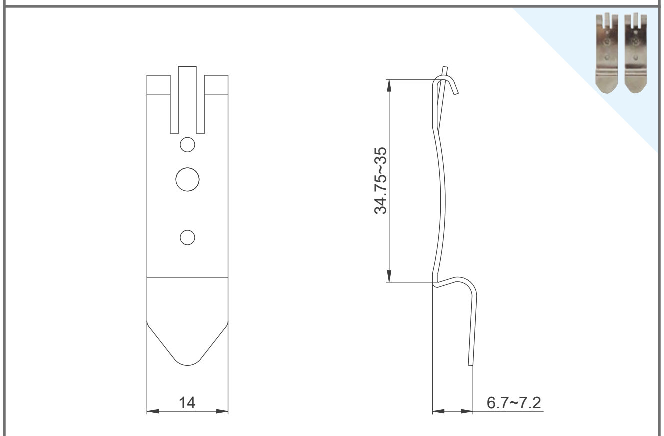
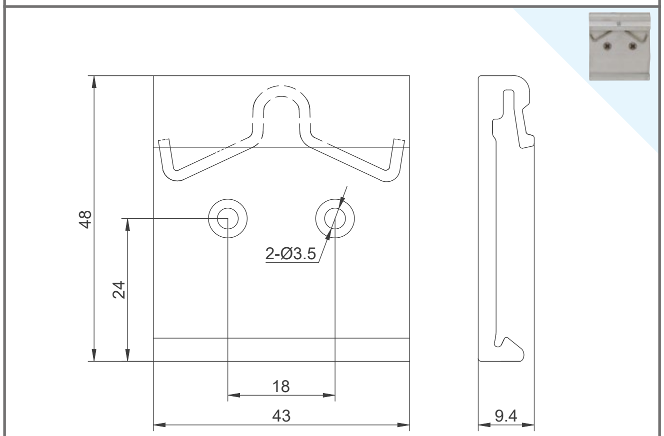


Accessories



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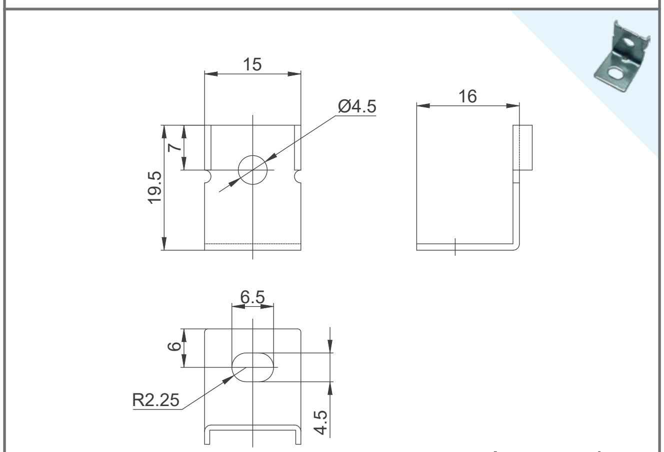

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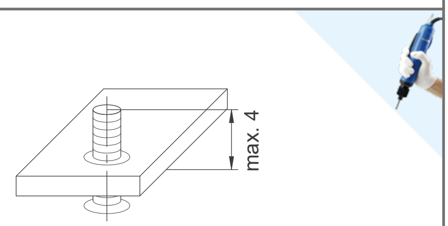


Chassis 机壳

NOTICE:
Mounting screws into chassis max. 4mm. Screwdriver torque max. 0.5N·m

注意：
安装螺丝进入
机壳长度≤4mm
螺丝刀扭矩≤0.5N·m

Installation Instructions

Pin	Definition of Terminal Pins	接线端子定义
L	AC input live line	交流输入火线
N	AC input neutral line	交流输入零线
⏚	Protective earth (PE) / Ground (G, GND)	输入接地端
+V	Output positive pole	输出正极
-V	Output negative pole	输出负极
COM	Common grounded	输出共地
Vadj	Output voltage adjustment potentiometer	输出电压调节电位器
LED	Working status indicator	工作指示灯
DC OK	DC OK relay contact	DC OK 继电器触点
BAT	Battery	电池接口
SK	Battery forced discharge Manual triggering operation	电池强制放电 手动转换触发电池工作
AS	AC mains present indicator	主电工作指示
BS	Backup power indicator	备电工作指示

1. 测试条件：

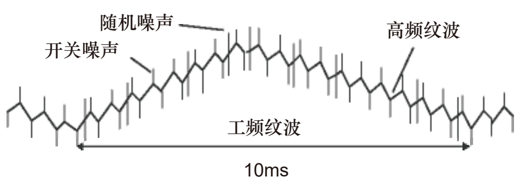
(1)除特殊说明外，上述所有参数的测试条件都在25℃室温、湿度＜75%RH、输入230VAC和额定负载时测得。
(2)电网调整率是在额定负载条件下从低电网到高电网的输出电压变化率。
(3)负载调整率是负载电流从额定负载的0% 到100%变化时的输出电压变化率。
(4)负载最大交叉调整率是各路负载在输出电压范围的极限条件下测得（适用于多路输出的电源）。
(5)纹波和噪声的检测是用20MHz带宽示波器，从被测电源的端口连接一根长30cm的20AWG（0.5mm²）屏蔽双绞线，且在绞线末端并接上0.1uF高频电容和47uF电解电容后测得。
(6)开关电源被视为用户整机的一个部件，整机是否符合EMC指令还需重新测试并验证。

2. 输入电压：交流输入的开关电源也可以用于直流输入。当交流输入电压范围为85～264VAC时，直流输入电压范围为120～370VDC；当交流输入电压范围为170～264VAC时，直流输入电压范围为240～370VDC；当交流输入电压范围为85～132VAC/170～264VAC开关选择时，直流输入电压范围为240～370VDC（开关置于230VAC档位）。

3. 泄漏电流：是指人体接触到开关电源外壳的对地接触电流。系统使用多台电源时，会接入同一接地点,需注意总的泄漏电流是每个单元的泄漏电流之和。为免遭电击，须检查保护接地线的可靠连接及接地电阻是否符合要求。

4. 输出纹波和噪声：

如右图所示，开关电源的纹波和噪声一般情况下指总的纹波电压波的正反峰之间的电压值，由四部分组成：
(1)工频纹波：频率为输入AC电源频率的2倍（直流输入时无此项）；
(2)高频纹波：频率与开关电源内部脉冲调制（PWM）频率相同；
(3)开关噪声：与开关脉冲的频率相同；
(4)随机噪声：与交流输入电压及开关频率无关。



5. 输出功率：如将开关电源输出电压调高时，输出电流（最大值）将相应减少，以保持输出功率不变；如将输出电压调低时，输出电流（最大值）应不能超过标准规定的额定（最大）值；对于多路输出电源，各路输出功率之和不能超过额定输出功率。长期过功率使用可能会导致输出电压下降、发热严重等问题，甚至造成电源损坏。

6. 保护方式：开关电源输出的保护方式，通常分为以下两种：

(1)自恢复型：当引起保护的异常情况解除后，电源可自动恢复正常工作。
(2)不可恢复型：当保护功能被启动后，电源即关闭输出，异常情况解除后电源无法自动恢复正常工作。这种情况下，先检查并排除负载故障，断电后等待30秒再重新开机（加电），以确保保护状态得以复位。

7. 环境温度：指开关电源在正常工作时的环境温度，如电源安装在设备机箱内，工作温度就指机箱内部温度。当工作温度超过限值时，须根据减额曲线来确定输出功率，一般按额定输出功率的2%/℃减额使用，或采用风冷措施。电源运行过程中，机壳散热孔周围最好保留5-10cm以上的无障碍空间，以免影响电源散热导致损坏或过热保护。

8. 环境湿度:开关电源适用的环境湿度通常为20%～90%RH（无凝露）。湿度过大会对电源产生不良的影响，甚至造成电源损坏。如无法避免需在湿度较高、温差变化大（易产生凝露）、或有可能遭致盐雾侵蚀的环境下（如海边、游泳池等）使用，请务必事先说明，本公司将对电源采取必要的防护措施。严禁在露天无遮盖，可能遭遇雨淋、水浸的环境下使用（IP65以上等级的电源除外）。

9. 海拔高度：当工作海拔高于2000米时，开关电源环境温度须调降5℃/1000米。

10. 平均无故障间隔时间（MTBF）：是指相邻两次故障之间的平均工作时间，也称为平均故障间隔，是衡量一个产品的可靠性指标。一般AC/DC开关电源测试条件为25℃室温、输入230VAC和额定负载，然后将测试结果代入MIL-HDBK-217F公式计算所得。

11. 安全须知：

(1)在接线和拆卸开关电源时，务必断开输入端以免造成触电危险。
(2)对于有接地要求的开关电源，须确保接地良好。包括检查接地连接是否牢固，接地导线的截面积是否符合安全标准，以免在发生接地故障时，无法及时将电流引入大地，导致机壳带电，增加触电风险。
(3)输入和输出线接反可能造成跳闸的风险，或造成电源损坏。
(4)金属物品（如螺丝等）掉入电源内部可能造成不可预知的风险。
(5)开关电源内部包含高压电路和复杂的电子元件，只有具备专业资质的技术人员才能维修，非专业人士切勿擅开罩盖以免扩大故障风险。开盖前务必断开输入端，因为即使在电源关闭的情况下，内部的电容器仍可能存储电荷，以免造成触电危险。

1. Test Conditions:

(1) Unless specially mentioned, all parameters are measured at 25℃ ambient temperature, max. 75%RH, 230VAC input and rated load.
(2) Line regulation is the output voltage change rate from low line to high line at rated load.
(3) Load regulation is the output voltage change rate from 0% to 100% rated load.
(4) Max. cross line regulation is measured under the extreme conditions of the output current range for each load (only applies to multi-output power supplies).
(5) Ripple & noise are measured by an oscilloscope at 20MHz of bandwidth, using a 30cm AWG ($0.5mm^2$) twisted pair-wire connected to the power supply, terminated with a 0.1uF high-frequency & 47uF electrolytic parallel capacitor.
(6) The power supply is regarded as a component which will be installed into the final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

2. Input Voltage: Normally, power supplies with AC input can also be applied to DC input. The DC input voltage range shall be 120-370VDC when the AC input voltage range is 85-264VAC; and 240-370VDC when the AC input voltage range is 170-264VAC, or 85-132VAC/170-264VAC optional (switched to 230VAC).

3. Leakage Current: is the ground contact current when the human body touching the enclosure of the power supply. In case several power supplies are used in one system, they will be connected to the same ground. In this way, the total leakage current is the sum of the leakage currents of each unit.

4. Output Power: If the output voltage is increased, the output current (max. value) should decrease accordingly to keep the total output power unchanged. If the output voltage is lowered, the output current (max. value) should not exceed the rated (max.) value. For multiple output products, the sum of the output power of each channel cannot exceed the rated output power. To use the power supplies exceeding rated output power continuously may cause overheating or damage.

5. Protection Methods:

(1) Auto recovery type: When the abnormal situation is resolved, the power supply can automatically resume normal operation.
(2) Non recoverable type: In this case, first check to confirm there is no failure with the load, then turn off the power and wait for 30 seconds before restarting to ensure the protection status has been cleared.

6. Operating Temperature: If the operating temperature exceeds the limit, we suggest that the practical usable power should be derated by 2%/℃ or necessary cooling measurements should be taken. During the operation, it is strictly prohibited to cover the openings of the enclosure, and min. 5-10cm empty space shall be kept around the openings for better heat dissipation.

7. Operating Humidity: In case the power supply is to be used in environments with high humidity (such as beaches, swimming pools), please tell us in advance, since extra protective coating should be applied for such circumstances. It is prohibited to use the product outdoors where it may be exposed to rain or water (except for models designed IP65 or above).

8. Altitude: The working temperature should be derated by 5℃/1000m for operating altitude greater than 2000m.

9. MTBF (Mean Time Between Failure): is the average working time between two adjacent failures, also known as the average failure interval, which is normally used to evaluate the reliability of a product. MTBF can normally be calculated according to MIL-HDBK-217F formula, based on the test result at 25℃ ambient temperature, 230VAC input and rated load.

10. Safety Precautions:

(1) During wire connection and disassembly, make sure the power is turned off to avoid electric shock.
(2) To avoid electric shock, it is necessary to check the reliable connection of the protective grounding wire and whether the grounding resistance can meet the requirements.
(3) Reverse connection of input and output wires may cause the risk of tripping or damage to the power supply.
(4) Metal objects (such as screws) falling into the power supply may cause unpredictable risks.
(5) Only qualified and professional technician can open the cover to repair the power supplies.

Warranty Policy :

(1) Products found to be defective within 30 days from the arrival date can be returned for credit or exchange. Defective units should be shipped as ‘freight prepaid’ to us and we will repair and return the goods with your next order. For power supplies within warranty (excluding damage by incorrect use), we provide free repairing. If the warranty has expired, a reasonable repair fee will be charged.

(2) If customers do the repair by themselves, we can provide free replacing components.

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



Hengfu Corporation is the leading manufacturer of industrial switching power supplies in China. We have been supplier for Beijing Olympic Games, 60th National anniversary ceremony and Shanghai Expo2010. The company is ISO9001 certified by SGS and over 50 product series have acquired UL, CB, CE, CCC approval. Only top international and local brand components are adopted for the key parts. Our countrywide sales team and worldwide distributors are ready to offer you professional technical support and prompt service.

衡孚企业 Hengfu Corporation

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