

120W Din Rail Power Supply with PFC

HF120W-SDR Series



FEATURES

- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- PF>0.98@115VAC; >0.94@230VAC
- Japanese brand components for key parts
- Electrolytic capacitors all 105°C
- OCP indication
- Protections: overload/ over voltage/ over temperature/ short circuit
- 5 years limited warranty
- F612DRL 50 x 107.1 x 120.2mm

SPECIFICATIONS

Input Voltage	85~264VAC (120~370VDC)
Input Current	2.2A
Input Frequency	47~63Hz
Inrush Current	cold start, 20A/115V, 40A/230V
Input Leakage Current	< 1mA/230VAC
Line Regulation (full load)	± 0.5%
Voltage Adjust Range	± 10%
Output Overload Protection	110~130%, delay shutdown, re-power on to recover
Output Over Voltage Protection	115~150%, shut off, re-power on to recover
Short Circuit Protection	shut off, re-power on to recover
Rise Time	50ms @full load (typical)
Hold up Time	20ms @full load (typical)
Mechanical Feature	metal housing, din rail mounting
Dimensions	50 x 107.1 x 120.2mm (L x W x H)

Operating Temperature	-20°C ~+70°C(ref. derating curve)
Storage Temperature	-20°C ~+85°C
Operating Humidity	20%~93%RH(non condensing)
Storage Humidity	20%~95%RH(non condensing)
MTBF	>100,000 hours
Cooling	convection
Safety Standards	meet UL508, UL60950, EN60950
EMC Standards	meet GB9254, EN55022 Class B EN55024, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Withstand Voltage	I/P -O/P: 3.0KVAC/1min I/P - PE: 1.5KVAC/1min O/P-PE: 0.5KVAC/1min
Vibration	10~150Hz, 2G 10min/1cycle, 30min each along X, Y, Z axes
Connection	3P/7.5mm, 4P/5.0mm pitch plug-in type screw terminal block
Weight	0.64kgs/pcs

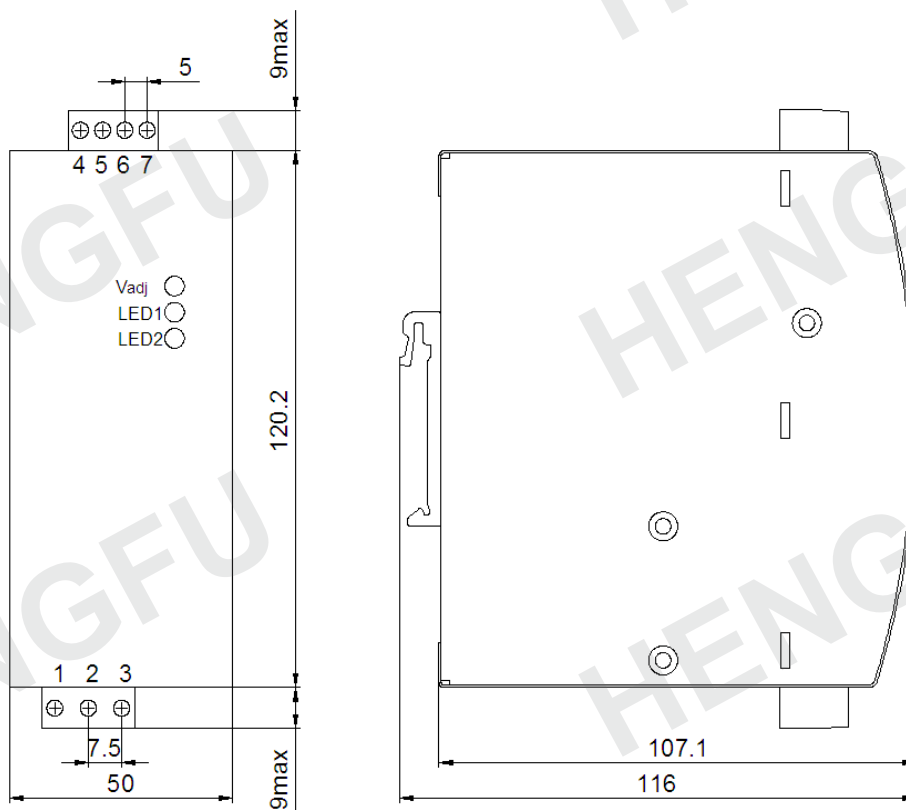
Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF120W-SDR-12	12V 10.0A	120W	0.5%	± 1%	120mVp-p	84%
HF120W-SDR-24	24V 5.0A	120W	0.5%	± 1%	150mVp-p	85%
HF120W-SDR-48	48V 2.5A	120W	0.5%	± 1%	150mVp-p	87%

* 12~48VDC output all available

NOTE

1. All parameters are measured at 230VAC input, rated load and 25°C ambient temperature.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 0% to 100% of rated load for single output models. For multi-output models, it is measured from 20% to 100% of rated load, and other output at 60% rated load.
4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
5. The power supply is regarded as a component which will be installed into the final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

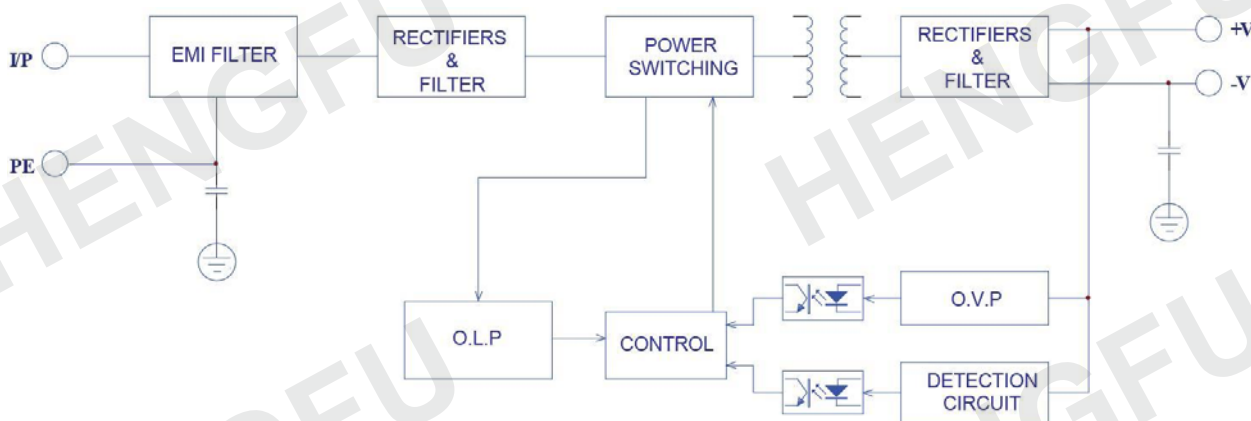
Drawing



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT +V
2	AC/N	6,7	DC OUTPUT -V
3	PE		

Block Diagram



Derating Curve

