240W Single Output Switching Power Supply

HF240W-SF Series

FEATURES

- AC input range selected by switch
- Japanese brand components for key parts
- Electrolytic capacitors all 105°C
- Free air cooling. If used in confined space, external fan cooling is requested
- Approvals: UL, CE
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F615UL 199 x 110 x 50mm

SPECIFICATIONS

Input Voltage	85~132/170~264VAC switchable
Input Current	4.8A/115V, 2.4A/230V
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%, shut off, 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	enclosed
Dimensions	199 x 110 x 50mm (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	GB4943, UL60950, EN60950
EMC Standards	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	7P/9.5mm screw terminal block
Packing	0.91kgs, 20pcs/20kgs/0.045CBM per carton

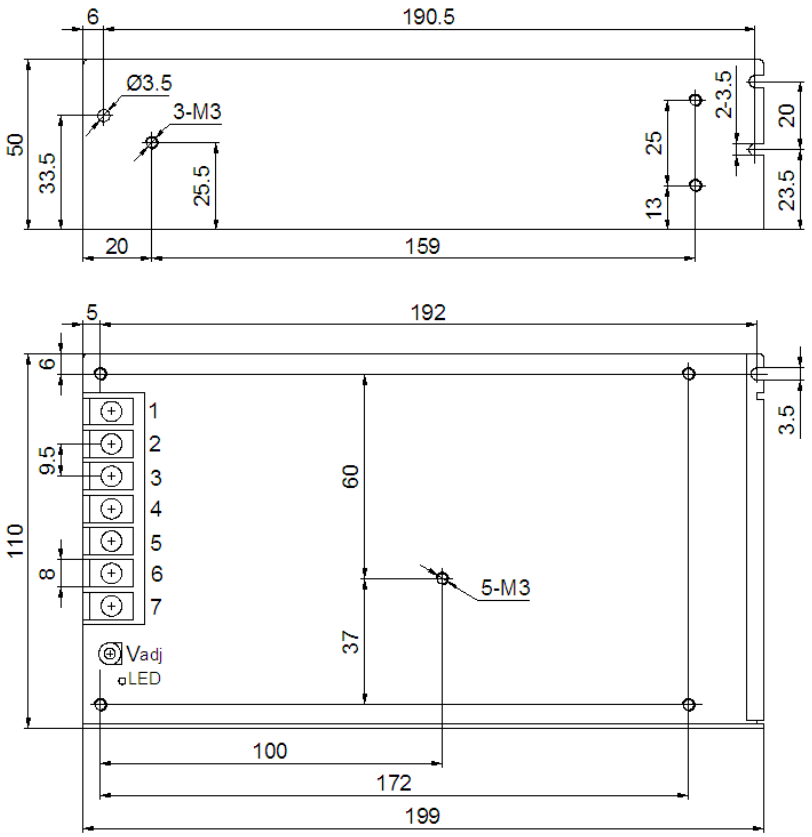
Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF240W-SF-5	5V 40.0A	200.0W	0.5%	± 2%	100mVp-p	79%
HF240W-SF-7.5	7.5V 30.0A	225.0W	0.5%	± 2%	100mVp-p	80%
HF240W-SF-12	12V 18.0A	216.0W	0.5%	± 1%	120mVp-p	83%
HF240W-SF-15	15V 15.0A	225.0W	0.5%	± 1%	120mVp-p	85%
HF240W-SF-24	24V 10.0A	240.0W	0.5%	± 1%	150mVp-p	85%
HF240W-SF-30	30V 8.0A	240.0W	0.5%	± 1%	150mVp-p	86%
HF240W-SF-36	36V 6.6A	237.6W	0.5%	± 1%	150mVp-p	86%
HF240W-SF-48	48V 5.0A	240.0W	0.5%	± 1%	150mVp-p	87%

* 3~48VDC output all available

NOTE

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

Drawing



Length of assembly screw: max. 6mm

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		

Derating Curve