

## 45W Open Frame Switching Power Supply

HF45W-SPL Series



### FEATURES

- Universal AC input / full range
- Miniature PCB structure
- Japanese brand components for key parts
- Electrolytic capacitors all 105°C
- Free air convection cooling
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- Dimensions: 127 x 76.2 x 27mm

### SPECIFICATIONS

Input Voltage	85~264VAC (120~370VDC)
Input Current	1.3A
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	105~150%, hiccup mode, auto recovery
Output Over Voltage Protection	115~150%, shut off, re-power on to recover
Short Circuit Protection	hiccup mode, auto recovery
Rise Time	50ms @full load (typical)
Hold up Time	20ms @full load (typical)
Mechanical Feature	open frame
Dimensions	127 x 76.2 x 27mm (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 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 TB1,TB2 (refer to drawing)	2P/7.92mm, 6P/3.96mm pitch A3961WV wafer, A3961H0 socket, A3961T crimp Manufacturer: Taiwan JWT
Weight	0.19kgs/pcs

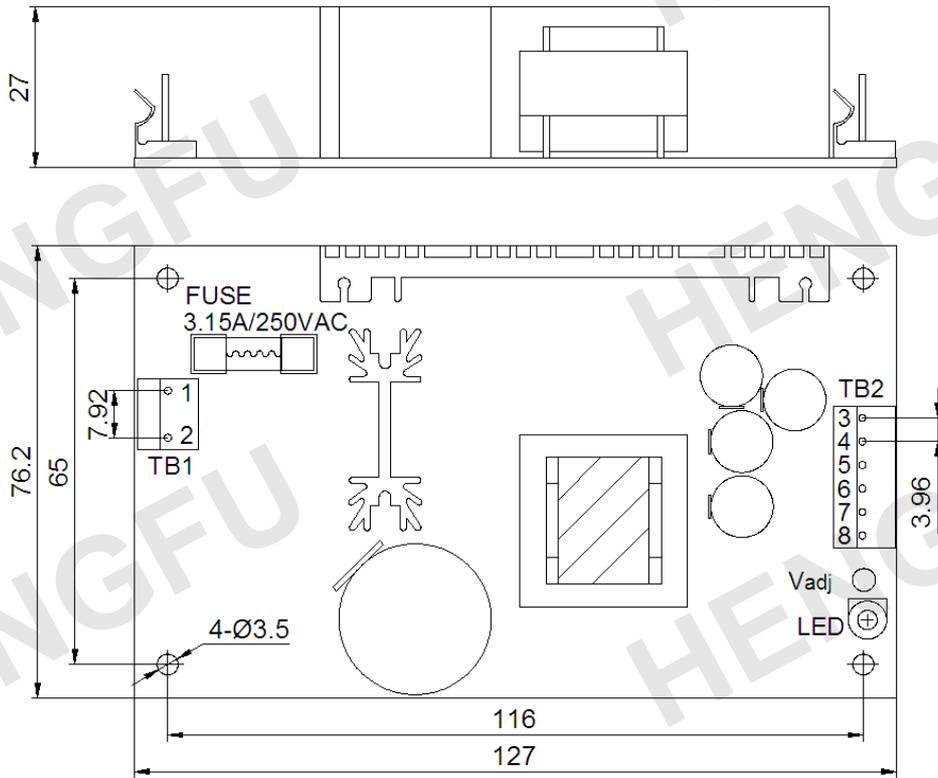
Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF45W-SPL-5	5V 8.0A	40.0W	0.5%	± 2%	80mVp-p	70%
HF45W-SPL-12	12V 3.7A	44.4W	0.5%	± 1%	120mVp-p	83%
HF45W-SPL-24	24V 1.9A	45.6W	0.5%	± 1%	150mVp-p	85%
HF45W-SPL-48	48V 1.0A	48.0W	0.5%	± 1%	150mVp-p	86%

\* 3~48VDC 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**



TB1, TB2 Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3,4,5	DC OUTPUT +V
2	AC/N	6,7,8	DC OUTPUT -V

**Derating Curve**

