1000W Single Output Switching Power Supply

HF1000W-S Series

FEATURES

- High reliability
- Japanese brand components for key parts
- Electrolytic capacitors all 105°C
- Forced air cooling by built-in fan
- 100% full load burn-in test
- Protections: overload/ over voltage/ Over temperature/ short circuit
- 5 years limited warranty
- F650 250 x 160 x 87mm

SPECIFICATIONS

Input Voltage	170~264VAC (210~370VDC)
Input Current	12.0A/24VDC, 10.0A/28VDC, 10.0A/36VDC, 11.5A/48VDC
Input Frequency	47~63Hz
Inrush Current	60A/230V
Input Leakage Current	< 1mA/230VAC
Line Regulation (full load)	± 0.5%
Voltage Adjust Range	± 10%
Output Overload Protection	110~130%, current limiting, auto recovery
Output Over Voltage Protection	115~150%, shut off, re-power on to recover
Short Circuit Protection	current limiting, auto recovery
Rise Time	50ms @full load (typical)
Hold up Time	20ms @full load (typical)
Mechanical Feature	enclosed
Dimensions	250 x 160 x 87mm (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	by fan, full speed when power on
Safety Standards	design refer to GB4943, UL60950, EN60950
EMC Standards	design refer to GB9254, EN55022 Class A
Withstand Voltage	I/P -O/P: 1.5KVAC/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	Input:3P/9.5mm screw terminal block Output: Φ6mm copper pole
Packing	3kgs, 6pcs/20kgs/0.041CBM per carton

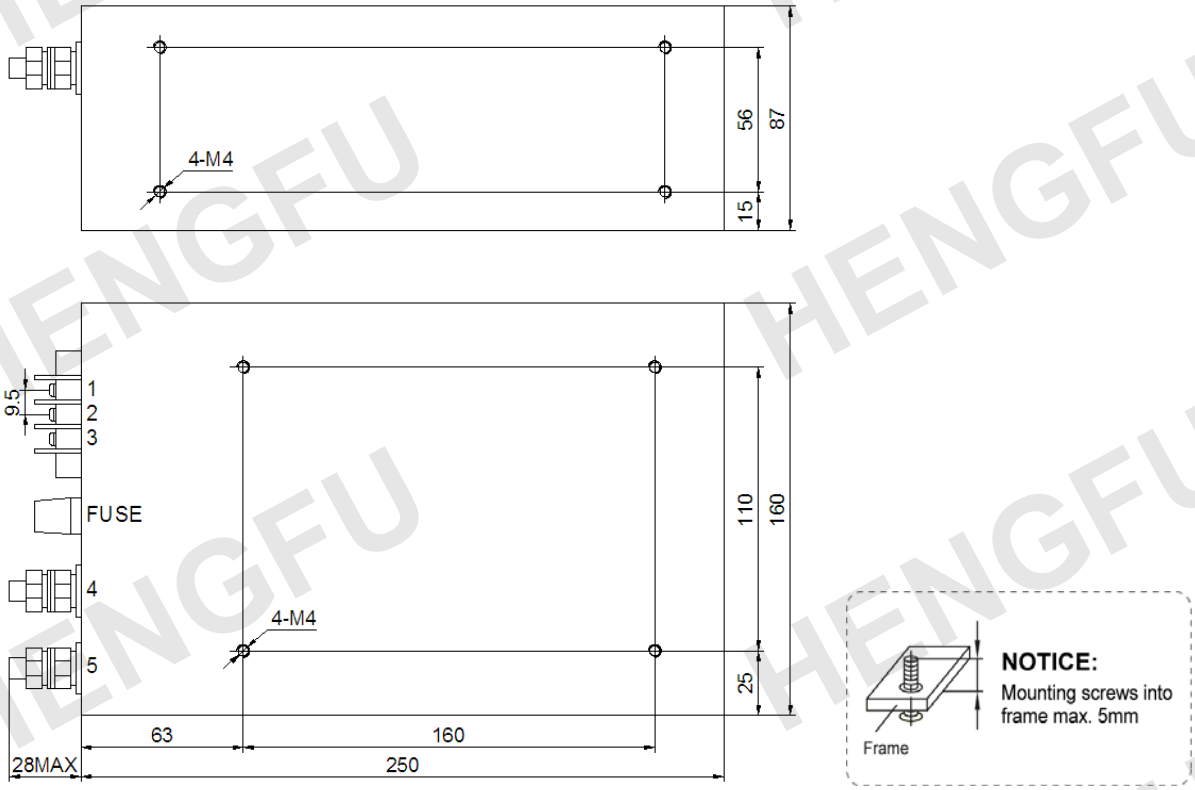
Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF1000W-S-24	24V 42A	1008W	0.5%	± 1%	150mVp-p	84%
HF1000W-S-27	27V 37A	999W	0.5%	± 1%	200mVp-p	85%
HF1000W-S-28	28V 35A	980W	0.5%	± 1%	200mVp-p	85%
HF1000W-S-36	36V 28A	1008W	0.5%	± 1%	200mVp-p	86%
HF1000W-S-48	48V 21A	1008W	0.5%	± 1%	240mVp-p	88%

* 24~48VDC 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.

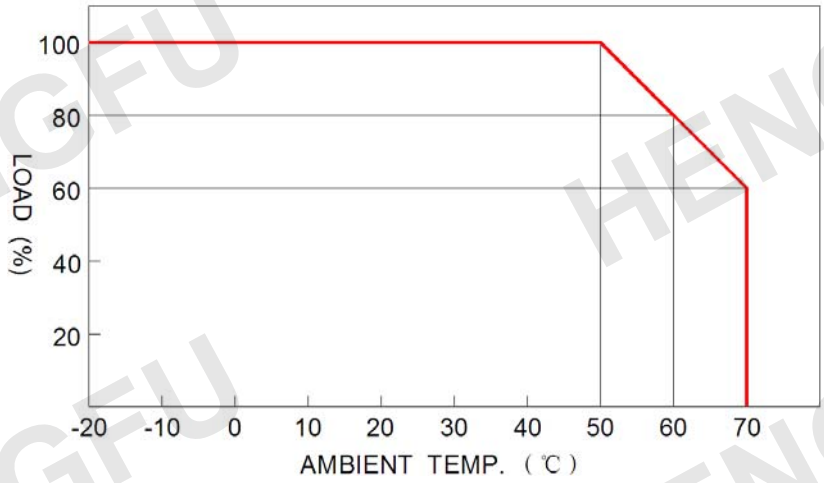
Drawing



Terminal Pin No. Assignment

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

Derating Curve



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