

50W Single Output Switching Power Supply

HF50W-SSM M2 Series



FEATURES

- Universal AC input / full range
- · Miniature size, high power density
- Japanese brand components for key parts
- Electrolytic capacitors all 105°C
- 100% full load burn-in test
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605SM 99 x 97 x 36mm

SPECIFICATIONS

Input Voltage	88~264VAC (124~370VDC)			
Input Current	1.6A			
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	105~150%, hiccup mode, auto			
Protection	recovery			
Output Over Voltage	115~150%, shut off, re-power			
Protection	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	enclosed			
Dimensions	99 x 97 x 36mm			
	(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
J	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	5P/9.5mm screw terminal block
Packing	0.28kgs, 42pcs/14kgs/0.026CBM
	per carton

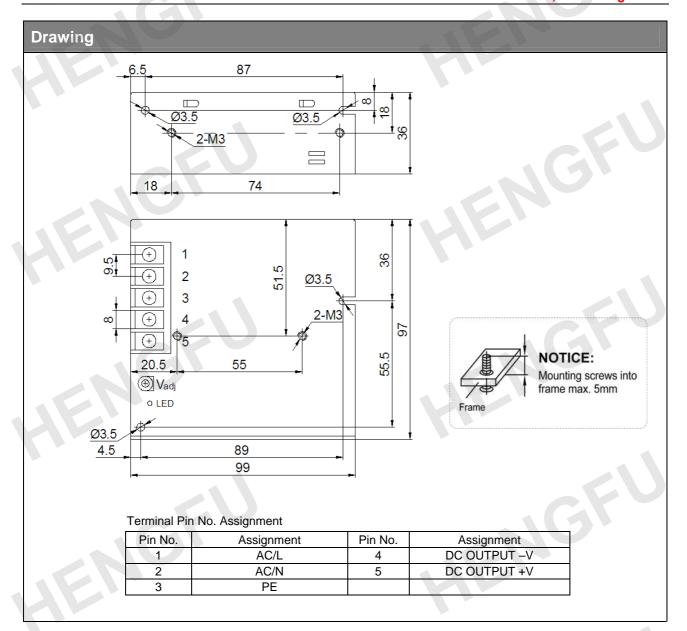
Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF50W-SSM-3.3	3.3V 10.0A	33.0W	0.5%	± 3%	80mVp-p	72%
HF50W-SSM-5	5V 10.0A	50.0W	0.5%	± 2%	80mVp-p	80%
HF50W-SSM-12	12V 4.2A	50.4W	0.5%	± 1%	120mVp-p	82%
HF50W-SSM-24	24V 2.2A	52.8W	0.5%	± 1%	150mVp-p	85%
HF50W-SSM-48	48V 1.1A	52.8W	0.5%	± 1%	150mVp-p	86%

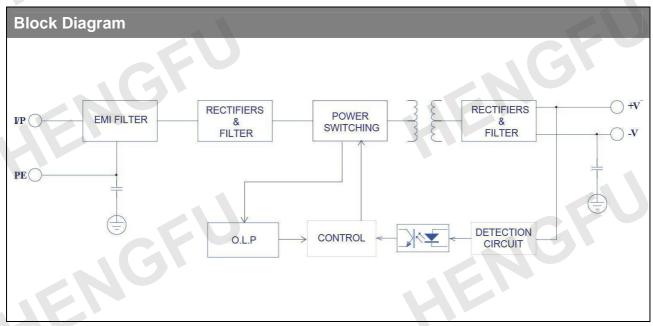
^{* 3.3~48}VDC output all available

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.







ENGFU

HENGEL



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