

15W Single Output Switching Power Supply HF15W-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
- F6015SM 62.5 x 51 x 28mm

## **SPECIFICATIONS**

Input Voltage	88~264VAC (124~370VDC)			
Input Current	0.4A			
Input Frequency	47~63Hz			
Inrush Current	cold start, 15A/115V, 30A/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	clamping by zenor diode			
Protection				
Short Circuit Protection	hiccup mode, auto recovery			
Rise Time	50ms @full load (typical)			
Hold up Time	20ms @full load (typical)			
Mechanical Feature	enclosed			
Dimensions	62.5 x 51 x 28mm			
	(L x W x H)			

Operating Temperature $-20^{\circ}C \sim +70^{\circ}C$ (ref. derating curve)Storage Temperature $-20^{\circ}C \sim +85^{\circ}C$ Operating Humidity $20\% \sim 93\%$ RH(non condensing)Storage Humidity $20\% \sim 95\%$ RH(non condensing)MTBF>100,000 hoursCoolingconvectionSafety StandardsGB4943, UL60950, EN60950EMC StandardsGB9254, EN55022 Class B EN55024, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11Withstand VoltageI/P -O/P: $3.0$ KVAC/1min I/P - PE: $1.5$ KVAC/1min O/P-PE: $0.5$ KVAC/1minVibration $10\sim150$ Hz, 2G 10min/1cycle, 30min each along X, Y, Z axesConnection $5$ P/7.62mm screw terminal blockPacking $0.13$ kgs, 99pcs/15.5kgs/0.045CBM per carton		
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   Vibration 10~150Hz, 2G 10min/1cycle, 30min each along X, Y, Z axes   Connection 5P/7.62mm screw terminal block   Packing 0.13kgs, 99pcs/15.5kgs/0.045CBM	Operating Temperature	-20°C ~+70°C(ref. derating curve)
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EN55024, EN61000-3-2,3   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   O/P-PE: 0.5KVAC/1min   Vibration   10~150Hz, 2G 10min/1cycle,   30min each along X, Y, Z axes   Connection 5P/7.62mm screw terminal block   Packing 0.13kgs, 99pcs/15.5kgs/0.045CBM	Safety Standards	GB4943, UL60950, EN60950
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	Connection	5P/7.62mm screw terminal block
per carton	Packing	0.13kgs, 99pcs/15.5kgs/0.045CBM
		per carton

Model No.	DC Output	Rated Power	Load Regulation	Voltage Tolerance	Ripple & Noise (max.)	Efficiency
HF15W-SSM-5	5V 3.0A	15.0W	0.5%	± 2%	80mVp-p	76%
HF15W-SSM-12	12V 1.3A	15.6W	0.5%	± 1%	120mVp-p	82%
HF15W-SSM-24	24V 0.625A	15.0W	0.5%	± 1%	150mVp-p	83%
HF15W-SSM-48	48V 0.33A	15.8W	0.5%	± 1%	150mVp-p	83%

\* 5~48VDC 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





