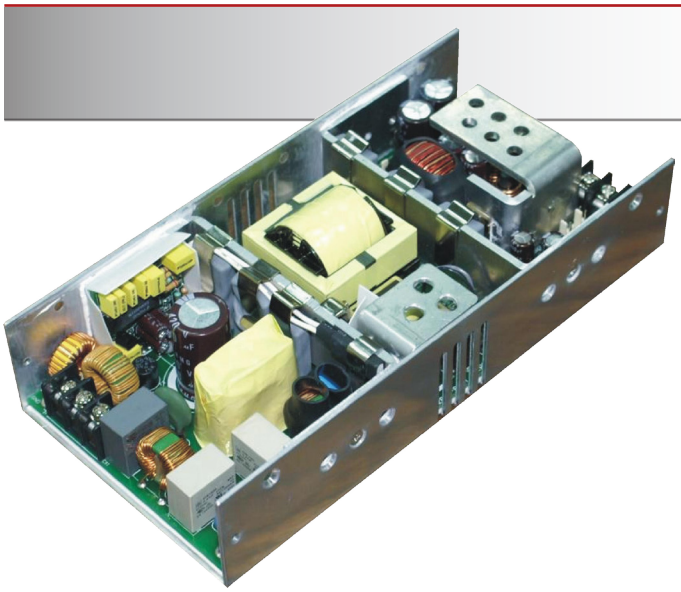
MPM-815H:



RoHS COMPLIANT

150 Watt Medical ATX Power Supply

Features:

- 150 Watts Convection Cooled Operation
- Universal AC Input with Active PFC
- 5VSB / Power Good / Inhibit Functions
- ATX 12V V2.0 Compliant
- 2 Year Warranty

INPUT:

Input Voltage	Universal Input (90~264 VAC)
Input Frequency	47-63Hz
Inrush Current	60A @ 240 VAC Cold Start
Input Current	3 Amps Max Continuous
Input Protection	Dual Fuse
Hold-Up Time	16mS minimum
Leakage	300µA max

GENERAL:

Efficiency	75% Typical
Operating Temperature	0-50°C Full Load (derate 2.5%/°C up to 70°C max)
Storage Temperature	-20°C to +85°C
Over-Temp Protection	Included
Cooling	Convection Cooled
Operating Humidity	10-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis

OUTPUT:

Adjustment Range	See Output Table
Minimum Load	None
Regulation	See Output Table
Ripple & Noise	See Output Table
Overload Protection	Auto-Recovery
Over Voltage	3.3 / 5 / 12Vout only (latching)
Short Circuit Protection	Trip without damage & auto-recovery

EMC:

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ±2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

STATUS & CONTROL:

Power Good	High = DC in Regulation
Power Fail	Goes low >1ms before loss of regulation
5VSB	Always Present and on when AC is present
Remote On/Off	P/S is on when pin is connected to ground
Fan Speed	Thermal switch on secondary heatsink

APPROVALS:

Emissions	EN55011 / EN55022 "B" FCC Part 15 Subject J Class B
Safety Approvals	UL/cUL 60601-1 EN 60601-1 CE Mark (LVD)

MPM-815H:

Ouput Specifications:

Output Voltage	Min. Output Current	Rated Output Current	Max. Output Current (Note 1)	Line Regulation	Load Regulation	Ripple & Noise p-p (Note 2)	Initial Setting Accuracy (Note 3)
+5V	1A	11A	14A	±1%	±2%	50mV	5.05V to 5.15V
+12V	0A	5A	10A	±1%	±4%	100mV	11.6V to 12.6V
-12V	0A	0.5A	1A	±1%	±5%	150mV	-11.4V to -12.6V
+3.3V	0A	7.5A	12A	±1%	±4%	50mV	3.20V to 3.40V
+5Vsb	0A	0.75A	1.5A	±1%	±4%	100mV	4.80V to 5.20V

Note: 1) The maximum total combined output power on the +3.3V and +5V rails is 90W.
2) Measured by a 20MHz bandwidth limited oscilloscope and the each output is connected with a 10μF Electrolytic Capacitor and a 0.1μF Ceramic Capacitor.
3) Initial Setting Accuracy is at Input 110VAC and all output at 60% rated load.
4) The total DC continuous power shall be kept with 150W at input voltage at 110-264VAC. With input voltage 90-109VAC the total DC continuous power shall be kept with 120W max. The maximum total combined output power on the +3.3V and +5V rails is 90W. On condition of with the option cover, the maximum 150W is at 30°C environment temperature (Please see part 6 of operating temperature).

Connector	CN1 --- AC input:		3 Positions Terminal blocks.			
	CN3 --- DC output:		8 Positions Terminal blocks.			
	CN4 --- Fan output:		Molex 5045-02A or equivalent			
	CN5 --- PG/PF:		Molex 5045-02A or equivalent			
	CN6 --- PS ON/OFF:		Molex 5045-02A or equivalent			
	CN7 --- +5Vsb output:		Molex 5045-02A or equivalent			
Pin Assignment	CN1	Pin	1. L	2. N	3. GND	
	CN3	Pin	1. -12V	2. GND	3. +3.3V	4. GND
			5. +5V	6. +5V	7. +12V	8. GND
	CN4	Pin	1. +12V	2. GND		
	CN5	Pin	1. +5V	2. GND		
	CN6	Pin	1. +5V	2. GND		
	CN7	Pin	1. +5Vsb	2. GND