H HiTRON

UNIVERSAL INPUT AC-DC MEDICAL & ITE APPLICATION OPEN FRAME INTERNAL SWITCHING POWER SUPPLIES 50WATTS GREEN POWER SINGLE OUTPUT HICM50G SERIES



FEATURES:

- **COMPACT 4"x2" PCB FORMAT**
- **FREE AIR CONVECTION**
- NO LOAD POWER CONSUMPTION <0.3W
- **MEET MEDICAL STANDARDS IEC60601-1** & ITE STANDARDS IEC60950-1
- EMI MEET CISPR EN55022 CLASS B
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION	OUTPUT SPECIFICATION		
Input Voltage: Range typ. 90-264Vac.	Output Voltage: See Ratings Chart.		
Rating 100 to 240Vac.	Output Current: See Ratings Chart.		
Input Connector: V-M connector.	Output Connector: V-M connector.		
-	Output Wattage: 20-50 watts.		
Input Frequency: 47-63Hz.	Line Regulation: Typical 0.1%.		
Inrush Current: ≤10A rms at cold start 230Vac.	Load Regulation: Typical ±1.5%.		
Input Current: Typ. 0.7A at 115Vac, 0.4A at 230Vac.	Noise & Ripple: Typical 1.0% peak to peak.		
Dielectric Withstand: Meet IEC 60950-1 & IEC60601-1.	OVP: Built-in at VO1(Latch).		
EMI: Meet CISPR EN55022 Class B (Please refer to note 4).	Adjustability: Not available.		
Hold-up Time: Typ. 16mS at 115Vac, 90.mS at 230Vac.	Overload Protection (OLP):		
	Fully protected against outputs overload and short circuit.		
Earth Leakage: Less than 0.2mA at 230Vac.	Typ. OLP set at 125-150% of rating output power.		
No Load Power: Less than 0.3Watt.	Consult the factory for OLP setting.		

GENERAL SPECIFICATION

Efficiency: Typ. 83-90% (various with the output voltage) Switching Frequency: 65K Hz. Circuit Topology: Fixed frequency flyback circuit. Transient Response: Output voltage returns in less than 1mS following a 25% load change. Safety Standard: IEC 60950-1 & IEC60601-1 Class I.

Operating Temperature: -20 to +50 °C at full load without forced air flow. Storage Temperature: -25 to +85°C. Cooling: Free air convection. Construction: 4"x2"x1.01" PCB format. Power Density: 6.2 Watts / Cubic Inch.

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load (±%).

(3) Due to requests in market and advances in technology, specifications subject to change without notice.
(4) Radiated EMI can pass Class B with external T core input and output added.



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In application

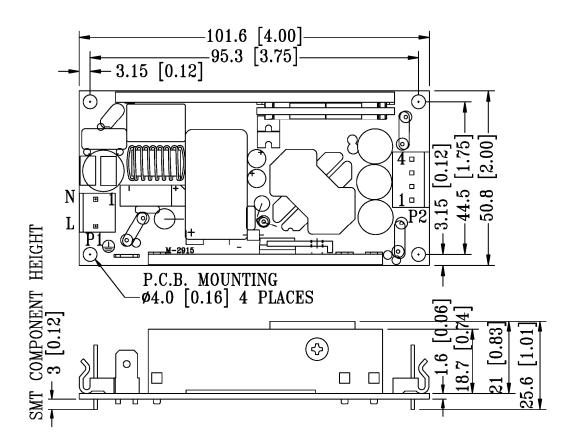
OUTPUT VOLTAGE / CURRENT RATINGS CHART

MODEL NO.	MAIN VO1 ★			
	Min.	Тур.	Volt.	Max.
HICM50G-S033600	0.0A	6.00A	3.3V	6.00A
HICM50G-S050600	0.0A	6.00A	5.0V	6.00A
HICM50G-S120416	0.0A	4.16A	12.0V	4.16A
HICM50G-S150340	0.0A	3.40A	15.0V	3.40A
HICM50G-S240210	0.0A	2.10A	24.0V	2.10A
HICM50G-S360140	0.0A	1.40A	36.0V	1.40A
HICM50G-S480105	0.0A	1.05A	48.0V	1.05A

SINGLE OUTPUT

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 141g (4.79 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

		AC INPUT		SINGLE OUTPUT		
ASSIGNMENT	AC-L	AC-N	AC-G	VO1	DC COM	
CNTR/PIN#	P1-3	P1-1	G	P2-3,4	P2-1,2	

Mating connector: P1,2 Molex # 5195 or 5239 series.

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