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**
- **INTERNATIONAL EFFICIENCY LEVEL V**
- **MEET MEDICAL STANDARDS IEC60601-1 & ITE STANDARDS IEC60950-1**
- **EMI MEET CISPR EN55022 CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range typ. 90-264Vac.
Rating 100 to 240Vac.
Input Connector: V-M connector.
Input Frequency: 47-63Hz.
Inrush Current: ≤10A rms at cold start 230Vac.
Input Current: Typ. 0.7A at 115Vac, 0.4A at 230Vac.
Dielectric Withstand: Meet IEC 60950-1 & IEC60601-1.
EMI: Meet CISPR EN55022 Class B (Please refer to note 4).
Hold-up Time: Typ. 16mS at 115Vac, 90.mS at 230Vac.
Earth Leakage: Less than 0.2mA at 230Vac.
No Load Power: Less than 0.3Watt.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: V-M connector.
Output Wattage: 20-50 watts.
Line Regulation: Typical 0.1%.
Load Regulation: Typical ±1.5%.
Noise & Ripple: Typical 1.0% peak to peak.
OVP: Built-in at VO1(Latch).
Adjustability: Not available.
Overload Protection (OLP):
Fully protected against outputs overload and short circuit.
Typ. OLP set at 125-150% of rating output power.
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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CE

For the details of safety approval, please consult the factory

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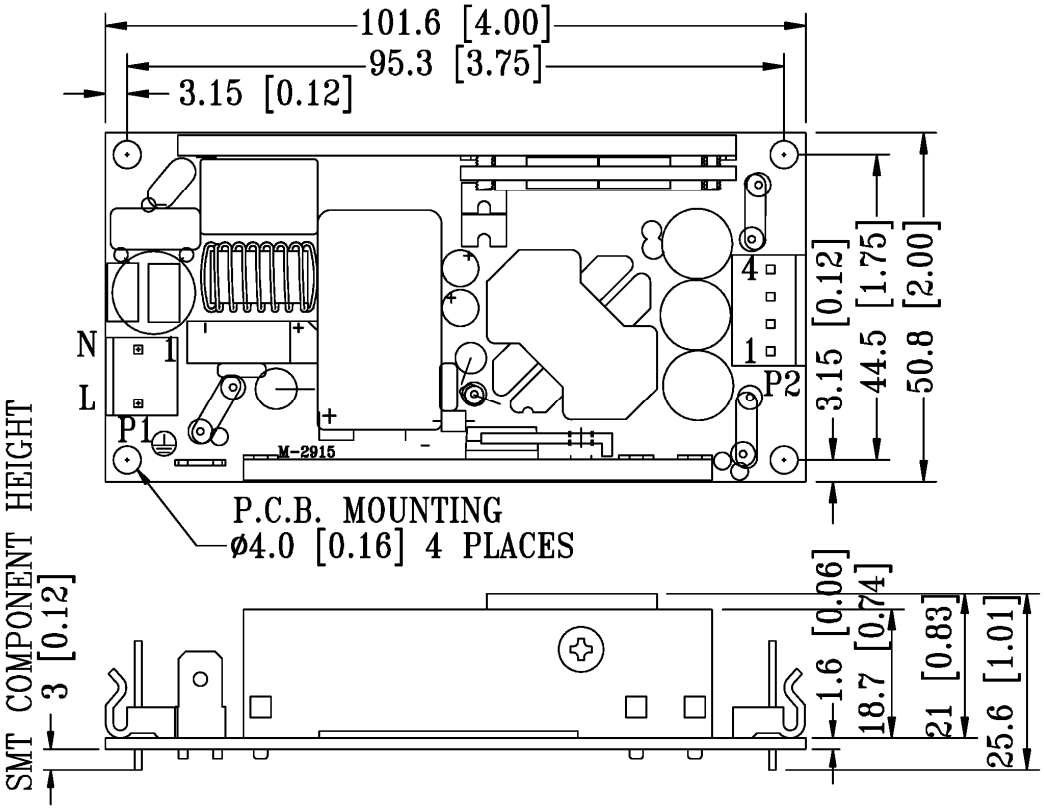
OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★			
	Min.	Typ.	**Volt.**	Max.
HICM50G-S033700	0.0A	7.00A	**3.3V**	7.00A
HICM50G-S050700	0.0A	7.00A	**5.0V**	7.00A
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

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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