Hitron

Universal input AC-DC Medical and ITE application open frame internal switching convection-cooled power supplies 50 Watts green power single output HICM50G series



Features

General

- 4x 2 inch Compact size
- Energy efficiency Level V
- Convection cooling
- PCB and Box format optional
- Medical and ITE application
- CE marking compliance



Specification

iliput		General		
Input Voltage	90-264VAC	Efficiency	Typical 83-90% (depending on model)	
Input Frequency	47-63Hz	Switching Frequency	65KHz	
Input Current	Typical 0.7A at 115VAC	Dielectric Withstand	IEC60601-1 and IEC60950-1	
	Typical 0.4A at 230VAC	Circuit Topology	Fix-flyback circuit	
Inrush Current	10A rms at 230VAC (cold start)	Transient Response	Output voltage returns in less than	
Input Connector	V-M connector or equivalent		1mS following a 25% load change	
Earth Leakage Current	Less than 0.2mA	Power Density	6.2W / Cubic Inch	
No-load Power	Less than 0.3 W	Construction	PCB and Box format optional	
Output		Environmental		
Output Connector	V-M connector or equivalent	Operating Temperature	-20°C to +50°C at full load without	
Line Regulation	Typical 0.1%		forced air flow	
Load Regulation	Typical ±1.5%	Storage Temperature	-25°C to +85°C	
Total Regulation	Typical ±2%	Cooling	Convection-Cooled	
Noise & Ripple	Typical 1% peak to peak	Operating Humidity	10-95% RH, non-condensing	
Adjustability	Not available	Storage Humidity	5-95% RH	
Hold-up Time	Typical 16mS at 115VAC	Safety/EMC		
	Typical 90mS at 230VAC	Emissions (refer to note 3)	CISPR EN55011/32 & FCC Class B	
Protection		Harmonic Current	IEC61000-3-2	
Over Voltage	Built-in (Latch)	Safety Standard	IEC60601-1 Class I	
Over Load	Typical set about 125-150% of		IEC60950-1 Class I	
	rating output wattage			
Mata.				

Notes:

- (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) Radiated EMI can pass Class B with external T core input and output added.
- (4) The power supply is considered a component installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- (5) Due to requests in market and advances in technology, specifications subject to change without notice.

Output voltage & current rating chart

Single Output

Model No.	V1 ★			
(refer to note 1)	Min	Тур.	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-S240215	0.0A	2.15A	24.0V	2.15A
HICM50G-S360140	0.0A	1.40A	36.0V	1.40A
HICM50G-S480105	0.0A	1.05A	48.0V	1.05A

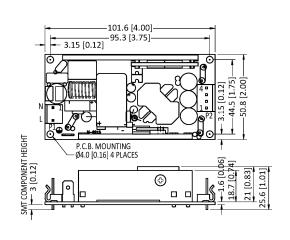
Symbol: ★ "OVP" built-in

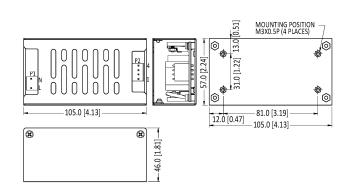
Notes: (1) Please add suffix to model number to define type: add "-B" for enclosure (metal box) version.

For example: HICM50G-S120416 is PCB version; HICM50G-S120416-B is for enclosure (metal box) version.

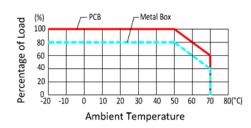
- (2) Derate output power by 20% for enclosure (Metal Box) version.
- (3)Other output voltages are available. Please contact sales for details

Mechanical Dimensions (Note: All dimensions are in mm[inch])





Derating Chart



Note: Derate output power by 20% for enclosure (Metal Box) version

Pin assignment

Assignment	Pin No.	
AC-Line	P1-3	
AC-Neutral	P1-1	
AC-Ground	GND	
V1	P2-3,4	
DC COM	P2-1,2	