

H HiTRON

Universal input AC-DC Medical and ITE application open frame internal switching convection-cooled power supplies 72 Watts green power single output HICM76G series



Features

- 4x 2 inch Compact size
- **Energy efficiency Level VI**
- **Convection cooling**
- Up to 90% high efficiency
- -25°C to +70°C wide operating temperature
- **PCB** and Box format optional
- Medical and ITE application
- **Class I and Class II applications**



Specification

Input

Input Voltage	90-264VAC	Efficiency	Typical 90% (depending on model)
Input Frequency	47-63Hz	Switching Frequency	65KHz
Input Current	Typical 1A at 115VAC	Dielectric Withstand	IEC60601-1 & IEC60950-1
	Typical 0.5A at 230VAC	Circuit Topology	Fixed Frequency flyback circuit
Inrush Current	Typical 14.6A rms at 230VAC	Transient Response	Output voltage returns in less than
Input Connector	V-M connector		1mS following a 25% load change
Earth Leakage Current	Less than 0.25mA	Power Density	7.13W/ Cubic Inch
Enclosure Leakage	Less than 0.1mA	Construction	PCB and Box format optional
No-load Power	Less than 0.26 Watts	Environmental	·
Output		Operating Temperature	-25°C to +70°C derate from 100%
Output Connector	Molex connector or equivalent	(Refer to derating chart)	load at +50°C to 60% at +70°C
Line Regulation	Typical 0.1%	Storage Temperature	-25°C to +85°C
Load Regulation	Typical ±1%	Cooling	Convection Cooling
Total Regulation	Typical ±1.5%	Operating Altitude	5000m
Noise & Ripple	Typical 1.0% peak to peak	Operating Humidity	10-95% RH, non-condensing
Adjustability	Not available	Storage Humidity	5-95% RH
Hold-up Time	Typical 18mS at 115VAC	Safety/EMC	
	Typical 92mS at 230VAC	Emissions (conducted)	CISPR EN55011/22 Class B
Protection		Safety Standard	IEC60601-1 Class I and Class II
Over Voltage	Built-in at (Latch)		IEC60950-1 Class I and Class II
Over Load	Typical 125-140% of rating load		

General

- (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) 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.
- (4) Due to requests in market and advances in technology, specifications subject to change without notice.
- (5) For the detail of safety approval, please consult the factory.

Output voltage & current rating chart

Single Output

Model No.	V1 ★ (refer to note 2)				
(Model no. for example Please refer to note 1 & 2)	Min	Тур.	Volt.	Max.	Peak
HICM76G-S120600-C1P	0.0A	6.0A	12V	6.0A	7.5A
HICM76G-S120600-C1B	0.0A	4.8A	12V	4.8A	6.0A
HICM76G-S120600-C2P	0.0A	6.0A	12V	6.0A	7.5A
HICM76G-S240300-C1P	0.0A	3.0A	24V	3.0A	3.5A
HICM76G-S240300-C2P	0.0A	3.0A	24V	3.0A	3.5A
HICM76G-S240300-C2B	0.0A	2.4A	24V	2.4A	2.8A
HICM76G-S480150-C1P	0.0A	1.5A	48V	1.5A	1.6A
HICM76G-S480150-C2P	0.0A	1.5A	48V	1.5A	1.6A

Symbol: ★ "OVP" built-in

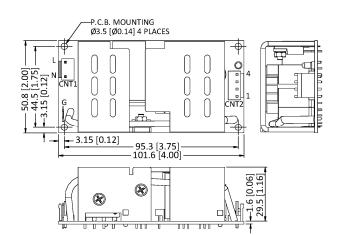
Notes: (1) Please add suffix to model number to define IEC protection classes: add "-C1" for Class I version (with AC-GND), and "-C2" for Class II version (without AC GND).

Please add suffix to model number to define type: add "-B" for enclosure (metal box) version, and "-P" for PCB version.

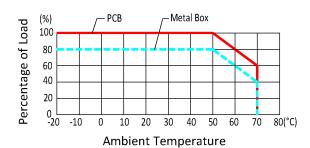
For example: HICM76G-S120600-C1P is for Class I and PCB version; HICM76G-S120600-C2B is for Class II and enclosure (metal box) version.

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

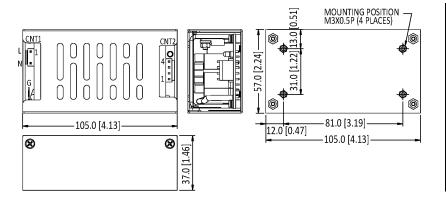
Mechanical Dimensions (Note: All dimensions are in mm[inch])



Derating Chart



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



Pin assignment

Assignment	Pin No. Class I	Pin No. Class II	
AC-Line	CNT1-1	CNT1-1	
AC-Neutral	CNT1-3	CNT1-3	
AC-Ground	G	N/A	
V1	CNT2-3,4	CNT2-3,4	
DC COM	CMT2-1,2	CNT2-1,2	