ADVANCED POWER SOLUTIONS

Hitron Electronics

HICM76-G Series

72 Watt Open-Frame Power Supply for Medical & ITE Applications

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

In application

Specification

Input

Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	Typical 1A at 115VAC Typical 0.5A at 230VAC
Inrush Current	Typical 14.6A rms at 230VAC
Input Connector	V-M connector
Earth Leakage Current	Less than 0.25mA
Enclosure Leakage	Less than 0.1mA
No-load Power	Less than 0.26 Watts

Output

Output Connector	Molex connector or equivalent
Line Regulation	Typical 0.1%
Load Regulation	Typical ±1%
Total Regulation	Typical ±1.5%
Noise & Ripple	Typical 1.0% peak to peak
Adjustability	Not available
Hold-up Time	Typical 18mS at 115VAC Typical 92mS at 230VAC

Protection

Over Voltage	Built-in at (Latch)
Over Load	Typical 125-140% of rating load

General

Efficiency	Typical 90% (depending on model)
Switching Frequency	65KHz
Dielectric Withstand	IEC60601-1 & IEC60950-1
Circuit Topology	Fixed Frequency flyback circuit
Transient Response	Output voltage returns in less than 1mS following a 25% load change
Power Density	7.13W/ Cubic Inch
Construction	PCB and Box format optional

Environmental

Operating Temperature (Refer to derating chart)	-25°C to +70°C derate from 100% load at +50°C to 60% at +70°C
Storage Temperature	-25°C to +85°C
Cooling	Convection Cooling
Operating Altitude	5000m
Operating Humidity	10-95% RH, non-condensing
Storage Humidity	5-95% RH

Safety/EMC

Emissions (conducted)	CISPR EN55011/22 Class B
Safety Standard	IEC60601-1 Class I and Class II IEC60950-1 Class I and Class II

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) 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.

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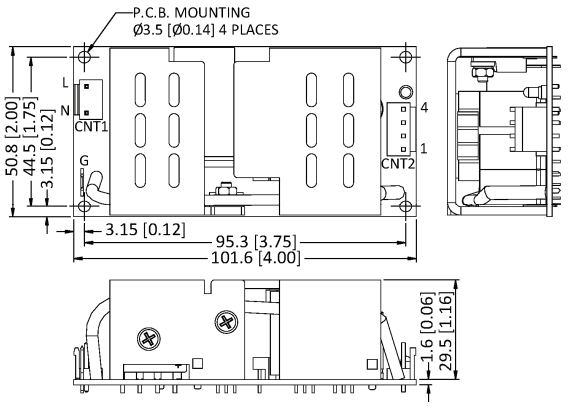
Model No. (Model no. for example Please refer to note 1 & 2)	V1 ★ (refer to note 2)				
	Min	Typ.	Volt.	Max.	Peak
HICM76G-S120600-C1P	0.0A	6.0A	**12V**	6.0A	7.5A
HICM76G-S120600-C1B	0.0A	4.8A	**12V**	4.8A	6.0A
HICM76G-S120600-C2P	0.0A	6.0A	**12V**	6.0A	7.5A
HICM76G-S240300-C1P	0.0A	3.0A	**24V**	3.0A	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

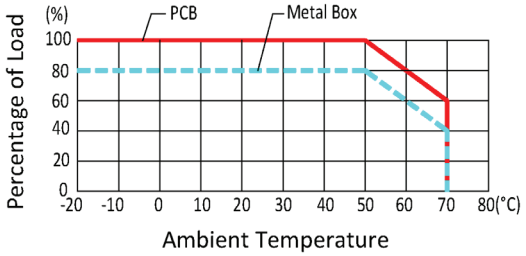
Symbol: ★ "OVP" built-in

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

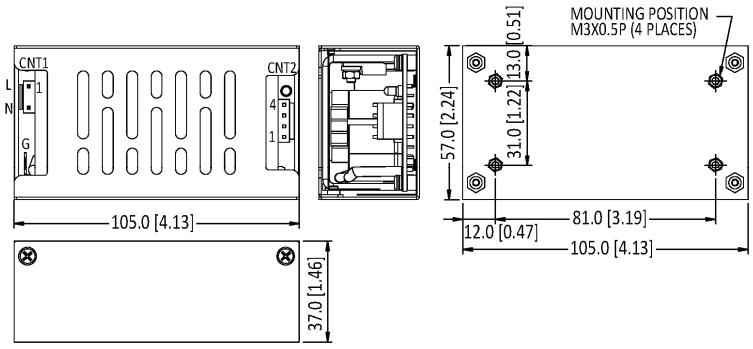
Mechanical Dimensions (Note: All dimensions are in mm[inch])



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