

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 |
| 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 | -25°C to +70°C derate from 100% (Refer to derating chart) |
| 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.

Output voltage & current rating chart

Single Output

| Model No. <small>(Model no. for example Please refer to note 1 & 2)</small> | V1 ★ <small>(refer to note 2)</small> | | | | |
|--|---------------------------------------|------|-------|------|------|
| | 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).

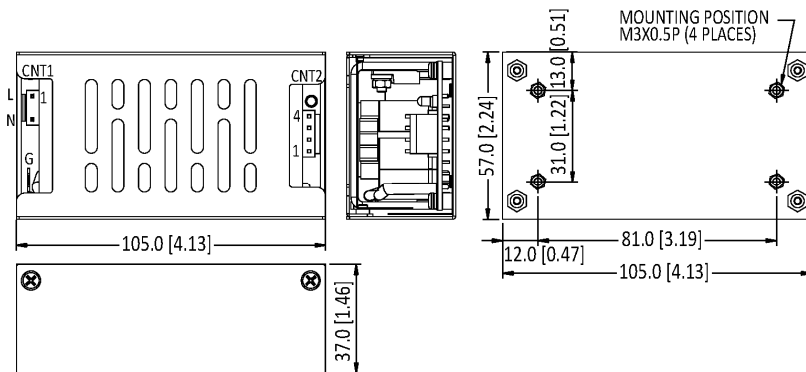
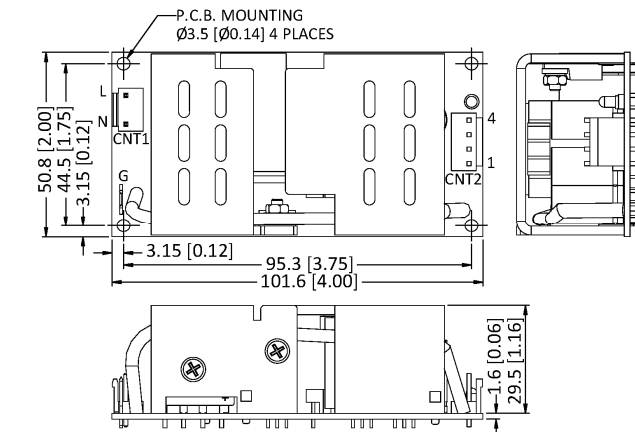
Please add suffix to model number to define type: add "-B" for enclosure (metal box) version, and "-P" for PCB version.

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

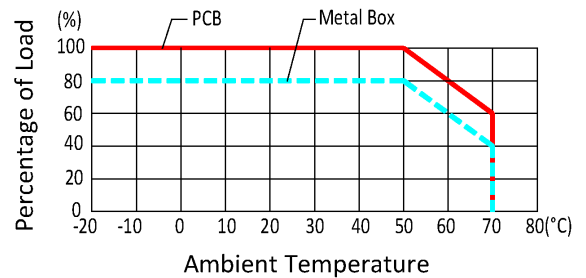
(2) Derate output power by 20% for enclosure (Metal Box) version.

(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 |