

• HiTRON

UNIVERSAL INPUT AC-DC MEDICAL APPLICATION OPEN FRAME INTERNAL SWITCHING POWER SUPPLIES 65WATTS GREEN POWER TRIPLE OUTPUT HICM65 SERIES



FEATURES:

- **COMPACT 4"x 2" PACKAGE**
- **FREE AIR CONVECTION**
- **UP TO 83% HIGH EFFICIENCY**
- **-20°C TO +70°C WIDE OPERATING TEMP.**
- **MEET MEDICAL STANDARDS IEC60601-1**
- **PCB & ENCLOSURE FORMAT OPTIONAL**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typical 90-264Vac.
Input Connector: V-H connector.
Input Frequency: 47-63Hz.
Inrush Current: Typical 16A rms at 230Vac.
Input Current: Typ. 1.1A at 115Vac, 0.55A at 230Vac.
Dielectric Withstand: Meet IEC60601-1.
EMI: Meet CISPR EN55022 Class B.
Hold-up Time: Typ. 16mS at 115Vac, 76mS at 230Vac.
Earth Leakage Current: Less than 0.24mA at 230Vac.
Enclosure Leakage Current: 0.01mA at 230Vac.
No Load Power: Less than 1.5W at 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: V-H connector.
Output Wattage: Typical 65 watts.
Line Regulation: Typical 0.5-2%.
Load Regulation: VO1/2 typ. $\pm 2.0\%$, VO3 typ. $\pm 3.0\%$
Total Regulation: VO1 typ. $\pm 4.0\%$, VO2/3 typ. $\pm 8.0\%$.
Noise & Ripple: Typical 1.0% peak to peak.
OVP: Built-in VO1 (Auto-recovery).
Adjustability: Not available.
Overload Protection (OLP):
Fully protected against outputs overload and short circuit.
Typ. OLP set at 130-150% of rating output power.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 83% at 230Vac (various with the o/p volt.)	Operating Temperature: -20°C to +70 °C with derating. (please refer to the derating chart).
Switching Frequency: 65K Hz.	Storage Temperature: -25 to +85°C.
Circuit Topology: Fix-flyback Circuit.	Cooling: Free air convection.
Transient Response: Output voltage returns in less than 0.01mS following a 25% load change.	Construction: PCB and Enclosure optional.
Safety Standard: IEC60601-1 Class I.	Power Density: 6.5Watts / 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 ($\pm\%$).

(3) Due to requests in market and advances in technology, specifications subject to change without notice.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO. (note 1)	MAIN VO1 ★				AUX. VO2				AUX. VO3			
	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.
HICM65-T050II	1.2A	6.0A	+5V	8.0A	0.50A	2.50A	+12V	3.0A	0.1A	0.5A	-12V	0.5A
HICM65-T050KK	1.2A	6.0A	+5V	8.0A	0.40A	2.00A	+15V	2.5A	0.1A	0.5A	-15V	0.5A
HICM65-T050MI	1.2A	6.0A	+5V	8.0A	0.25A	1.25A	+24V	1.5A	0.1A	0.5A	-12V	0.5A

Remark: “★” OVP built-in

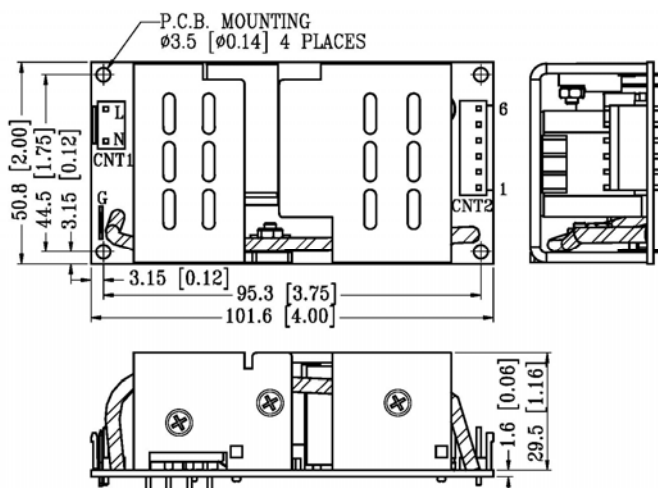
Note: 1.Please add suffix to model number to define type: add “-C” for enclosure (metal box) version, otherwise will be PCB version.

For example: HICM65-T050II is for PCB version, HICM65-T050II-C is for enclosure (metal box) version.

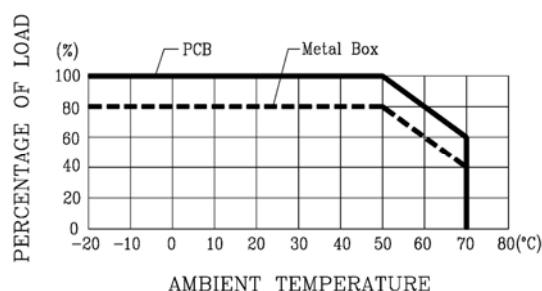
2. Derate output power by 20% for enclosure version.

MECHANICAL DIMENSIONS: MM [INCHES]

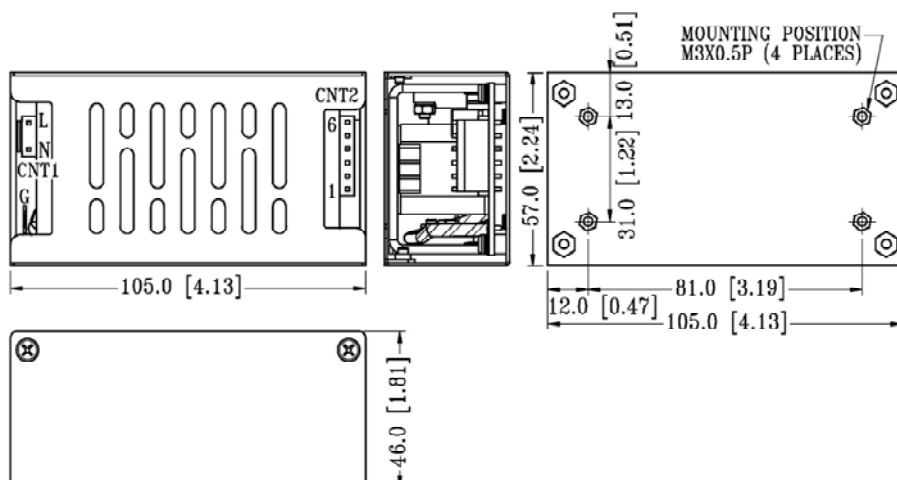
PCB Version



DERATING CHART



Enclosure (Metal Box) Version



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	CNTR/PIN#
AC-LINE	CNT1-L
AC-NEUTRAL	CNT1-N
AC-GROUND	GND
VO1	CNT2-5,6
VO2	CNT2-2
VO3	CNT2-1
DC COM	CNT2-3,4