

# HiTRON

**Universal input AC-DC Medical application open frame internal switching  
Convection-cooled power supplies 65 Watts triple output HICM65 series**



## Features

- 4x 2 inch Compact size
- Convection cooling
- Up to 83% high efficiency
- -20°C to +70° C wide operating temperature
- PCB & Box format optional
- Medical application
- CE marking compliance



## Specification

### Input

<b>Input Voltage</b>	90-264VAC
<b>Input Frequency</b>	47-63Hz
<b>Input Current</b>	Typical 1.1A at 115VAC Typical 0.55A at 230VAC
<b>Inrush Current</b>	Typical 16A rms at 230VAC
<b>Input Connector</b>	V-H connector or equivalent
<b>Earth Leakage Current</b>	Less than 0.24mA
<b>Touch Current</b>	Less than 0.1mA
<b>No-load Power</b>	Less than 1.5W

### Output

<b>Output Connector</b>	V-H connector or equivalent
<b>Line Regulation</b>	Typical 0.5-2%
<b>Load Regulation</b>	V1/2 Typical ±2%, V3 ±3%
<b>Total Regulation</b>	V1 Typical ±4%, V2/3 ±8%
<b>Noise &amp; Ripple</b>	Typical 1% peak to peak
<b>Adjustability</b>	Not available
<b>Hold-up Time</b>	Typical 16mS at 115VAC Typical 76mS at 230VAC

### Protection

<b>Over Voltage</b>	Built-in V1 (Auto-recovery)
<b>Over Load</b>	Typical 130-150% of rating load

### General

<b>Efficiency</b>	Typical 83% (depending on model)
<b>Switching Frequency</b>	65KHz
<b>Dielectric Withstand</b>	IEC60601-1
<b>Circuit Topology</b>	Fix-flyback Circuit
<b>Transient Response</b>	Output voltage returns in less than 0.01mS following a 25% load change
<b>Power Density</b>	6.5W / Cubic Inch
<b>Construction</b>	PCB & Box optional

### Environmental

<b>Operating Temperature</b> (Refer to derating chart)	-20°C to +70°C derate from 100% load at 50°C to 60% at 70°C
<b>Storage Temperature</b>	-25°C to +85°C
<b>Cooling</b>	Convection-Cooled
<b>Operating Altitude</b>	5000m (?)
<b>Operating Humidity</b>	10-95% RH, non-condensing
<b>Storage Humidity</b>	5-95% RH

### Safety/EMC

<b>Emissions (conducted)</b>	CISPR EN55011 & FCC Class B
<b>Harmonic Current</b>	IEC61000-3-2
<b>Safety Standard</b>	IEC60601-1 Class I

#### 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.

# Output voltage & current rating chart

## Single Output

Model No. <small>(refer to note 1)</small>	V1 ★				V2				V3			
	Min	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min	Typ.	Volt.	Max.
HICM65-T050II-C1P	1.2A	6.0A	+5V	8.0A	0.50A	2.5A	+12V	3.0A	0.1A	0.5A	-12V	0.5A
HICM65-T050KK-C1P	1.2A	6.0A	+5V	8.0A	0.40A	2.0A	+15V	2.5A	0.1A	0.5A	-15V	0.5A
HICM65-T050MI-C1P	1.2A	6.0A	+5V	8.0A	0.25A	1.0A	+24V	1.5A	0.1A	0.5A	-12V	0.5A

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).

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

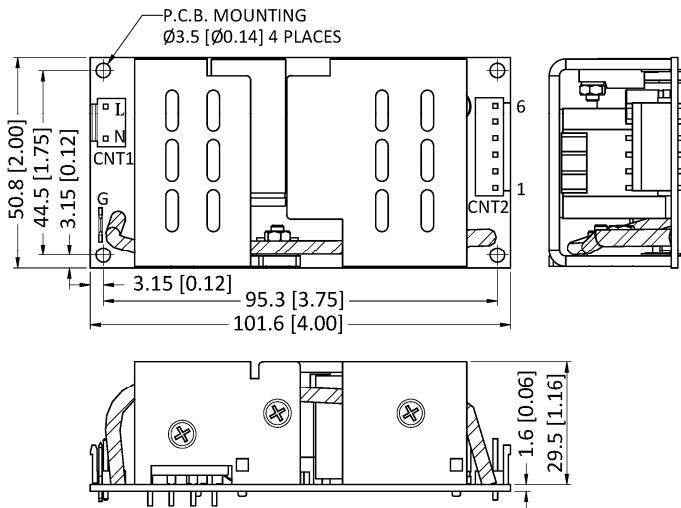
For example: HICM65-T050II-C1P is for Class I and PCB version; HICM65-T050II-C1B is for Class I and enclosure (metal box) version.

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

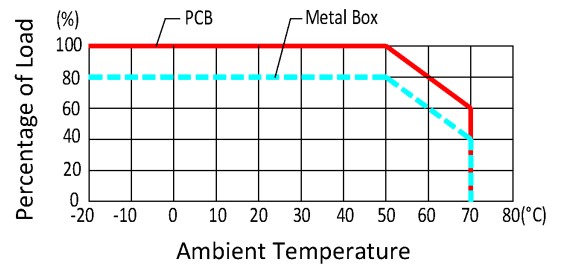
(3) Please consult the factory if the required output voltage is not listed.

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

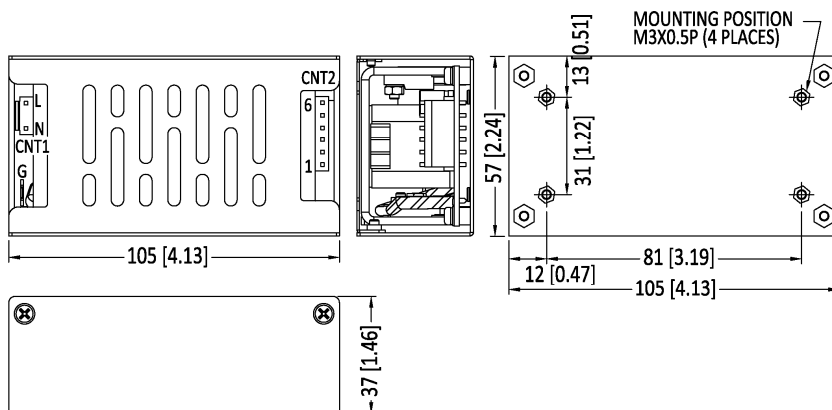
Weight:



## Derating Chart



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



## Pin assignment

Assignment	Pin No.
AC-Line	CNT1-L
AC-Neutral	CNT1-N
AC-Ground	GND
V1	CNT2-5,6
V2	CNT2-2
V3	CNT2-1
DC COM	CNT2-3,4