HiTRON

Universal input AC-DC Medical and ITE application open frame internal switching power supplies convection-cooled 150 Watts green power single output HICM150G series



Features

- **5x3 inch Compact size**
- **No load power consumption <0.5 W**
- **Very High Efficiency up to 94%**
- **150 W Convection/200 W Forced-cooled**
- **U-Bracket or Box format optional**
- **Medical and ITE application**
- **Class I and Class II construction**

CE

Specification

Input

Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	Typical 1.5A at 115VAC
	Typical 0.8A at 230VAC
Inrush Current	Typical 14.5A rms at 230VAC
Power Factor	Typical 0.92 at 230VAC
Input Connector	V-H connector or equivalent
Earth Leakage Current	Less than 0.1mA
No-load Power	Less than 0.5W

Output

Output Connector	V-H connector or equivalent
Line Regulation	Typical 0.1%
Load Regulation	Typical ±1.5%
Total Regulation	Typical ±3%
Noise & Ripple	Typical 1% peak to peak
Adjustability	Available
Hold-up Time	20mS min. at 230VAC

Protection

Over Voltage	Built-in (Latch)
Over Load	Typical set about 185-200% of rating output wattage
Over Temperature	Installed by NTC

General

Efficiency	Typical 94% (depending on model)
Switching Frequency	85KHz
Dielectric Withstand	IEC60601-1 and IEC60950-1
Circuit Topology	LLC circuit
Transient Response	Output voltage returns in less than 0.01mS for a 25% load change
Power Fail	Available
Remote ON/OFF	Available
Power Density	6.9W / Cubic Inch
Construction	U-Bracket and Box format optional

Environmental

Operating Temperature (Refer to the derating chart)	-20°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-cooled: 150W
	Forced-cooled: 200W with 10CFM
Operating Humidity	10-95% RH, non-condensing
Storage Humidity	5-95% RH

Safety/EMC

Emissions (conducted)	CISPR EN55011 & EN55022 Class B
Harmonic Current	IEC61000-3-2
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.

Edited on June 1, 2016

Output voltage & current rating chart

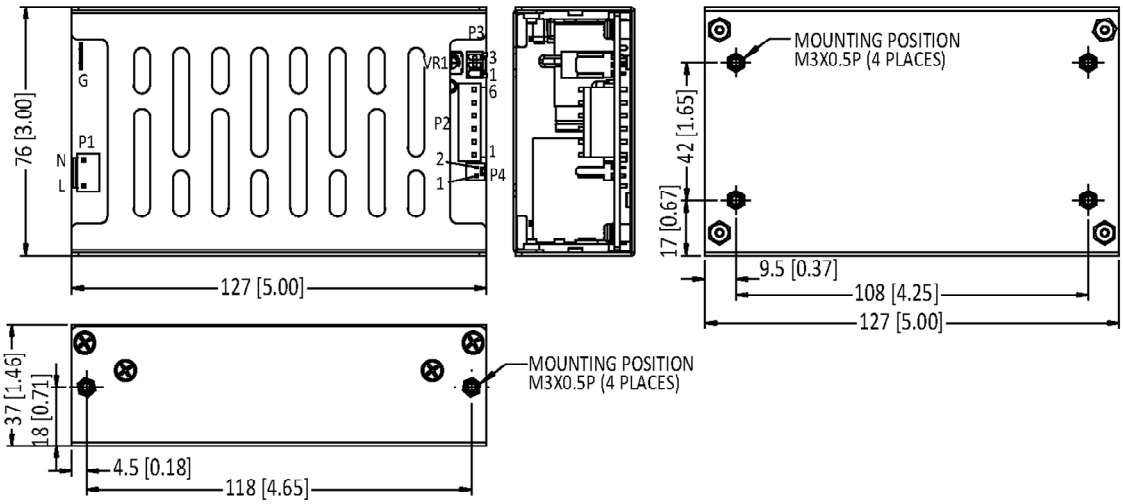
Single Output

Model No. (Model no. for example Please refer to note 1 & 2)	V1 ★ @ Min.	Typ. (Convection-cooled)	Volt.	Max. (Forced-cooled)	Fan Output Typ.	Volt.
HICM150G-S120125-C1U	0A	12.50A	**12V**	16.70A	0.5A	**12V**
HICM150G-S120125-C1B	0A	12.50A	**12V**	16.70A	0.5A	**12V**
HICM150G-S120125-C2U	0A	12.50A	**12V**	16.70A	0.5A	**12V**
HICM150G-S120125-C2B	0A	12.50A	**12V**	16.70A	0.5A	**12V**
HICM150G-S240625-C1B	0A	6.25A	**24V**	8.35A	0.5A	**12V**
HICM150G-S240625-C2U	0A	6.25A	**24V**	8.35A	0.5A	**12V**
HICM150G-S280536-C1B	0A	5.36A	**28V**	7.15A	0.5A	**12V**
HICM150G-S360417-C1B	0A	4.17A	**36V**	5.56A	0.5A	**12V**
HICM150G-S360417-C2U	0A	4.17A	**36V**	5.56A	0.5A	**12V**
HICM150G-S480314-C1U	0A	3.14A	**48V**	4.17A	0.5A	**12V**
HICM150G-S480314-C2B	0A	3.14A	**48V**	4.17A	0.5A	**12V**

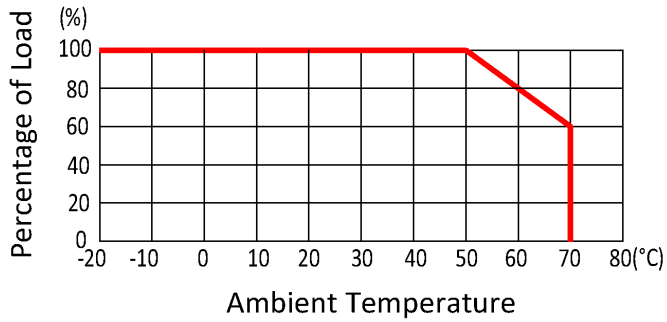
Symbol: ★ "OVP" built-in "@" Adjustable

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 "-U" for U-Bracket version.
For example: HICM150G-S120125-C1B is for Class I and Metal Box version; HICM150G-S120125-C2U is for Class II and U-bracket version.
(2) Other output voltages are available. Please contact sales for details.
(3) 10CFM fan-cooling is required if the output wattage is 200Watt.

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



Derating Chart



Note: 10 CFM fan cooling is required if total output power is 200W.

Pin assignment

Assignment	Pin No. (Class I)	Pin No. (Class II)
AC-Line	P1-L	P1-L
AC-Neutral	P1-N	P1-N
AC-Ground	GND	N/A
V1	P2-4,5,6	P2-4,5,6
DC COM	P2-1,2,3	P2-1,2,3
Power Fail	P3-1	P3-1
Remote ON/OFF	P3-2	P3-2
RTN	P3-3	P3-3
FAN +	P4-1	P4-1
FAN -	P4-2	P4-2

Notes: (1)Remote ON/OFF: P3-2 & P3-3 must be shorted to switch on the output.
(2) Mating connector: P1: CVILUX CI5203S0000/P2: JST B6P-VH

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