

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</p>
- 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

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Specification

Input		General	
Input Voltage	90-264VAC	Efficiency	Typical 94% (depending on model)
Input Frequency	47-63Hz	Switching Frequency	85KHz
Input Current	Typical 1.5A at 115VAC	Dielectric Withstand	IEC60601-1 and IEC60950-1
	Typical 0.8A at 230VAC	Circuit Topology	LLC circuit
Inrush Current	Typical 14.5A rms at 230VAC	Transient Response	Output voltage returns in less than
Power Factor	Typical 0.92 at 230VAC		0.01mS for a 25% load change
Input Connector	V-H connector or equivalent	Power Fail	Available
Earth Leakage Current	Less than 0.1mA	Remote ON/OFF	Available
No-load Power	Less than 0.5W	Power Density	6.9W / Cubic Inch
Output		Construction	U-Bracket and Box format optional
Output Connector	V-H connector or equivalent	Environmental	
Line Regulation	Typical 0.1%	Operating Temperature	-20°C to +70°C derate from 100%
Load Regulation	Typical ±1.5%	(Refer to the derating chart)	load at +50°C to 60% at +70°C
Total Regulation	Typical ±3%	Storage Temperature	-25°C to +85°C
Noise & Ripple	Typical 1% peak to peak	Cooling	Convection-cooled: 150W
Adjustability	Available		Forced-cooled: 200W with 10CFM
Hold-up Time	20mS min. at 230VAC	Operating Humidity	10-95% RH, non-condensing
Protection		Storage Humidity	5-95% RH
Over Voltage	Built-in (Latch)	Safety/EMC	
Over Load	Typical set about 185-200% of	Emissions (conducted)	CISPR EN55011 & EN55022 Class B
	rating output wattage	Harmonic Current	IEC61000-3-2
Over Temperature	Installed by NTC	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.

Output voltage & current rating chart

Single Output

Model No.	V1 ★ @				Fan Output	
(Model no. for example Please refer to note 1 & 2)	Min.	Typ. (Convection-cooled)	Volt.	Max. (Forced-cooled)	Тур.	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

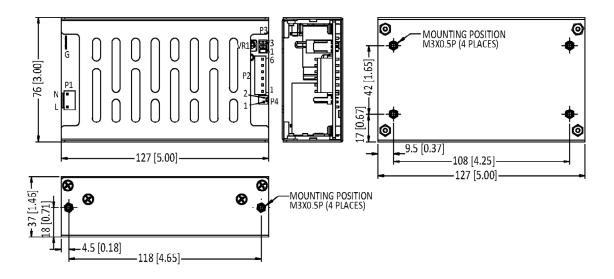
Notes: (1) Please add suffix to model number to define IEC protection classes: add "-C1" for Class I version (with AC-GND), and "-C2" for Class II version (without AC GND).

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

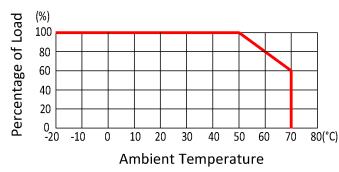
For example: HICM150G-S120125-C1B is for Class I and Metal Box version; HICM150G-S120125-C2U is for Class II and U-bracket version.

- (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

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	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