

JASPER ELECTRONICS

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UNIVERSAL INPUT AC-DC MEDICAL & ITE APPLICATION (PRELIMINARY)

OPEN FRAME INTERNAL SWITCHING POWER SUPPLIES 150WATTS GREEN POWER SINGLE OUTPUT HICM150G SERIES



FEATURES:

- COMPACT 5"x 3" PCB FORMAT
- NO LOAD POWER CONSUMPTION <1W
- FREE AIR CONVECTION
- MEET MEDICAL STANDARDS IEC60601-1 & ITE STANDARDS IEC60950-1
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- MEET UNIVERSAL SAFETY STANDARDS
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typical 90-264Vac.
Input Connector: V-H connector.
Input Frequency: 47-63Hz.
Inrush Current: Typical 18A rms at 230Vac.
Input Current: Typ. 1.6A at 115Vac, 0.8A at 230Vac.
Dielectric Withstand: Meet IEC60950-1 and IEC60601-1.
EMI: Meet CISPR PUB. 22 & FCC Class B.
Hold-up Time: Typ. 4.0mS at 115Vac and 230Vac.
Power Factor & Harmonic Correction:
Meet IEC61000-3-2, PF Typ.0.94 at 230Vac.
Earth Leakage: Less than 0.3mA at 230Vac.
No Load Power: Less than 1.0W at 230Vac.
Remote On/Off: Available.
Over Temp. Protection: Installed by NTC.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: M-T connector.
Output Wattage: Typical 150 watts.
Line Regulation: Typical 1.0%.
Load Regulation: Typical $\pm 1.0\%$.
Total Regulation: Typical $\pm 1.0\%$.
Noise & Ripple: Typical 2.0% peak to peak.
OVP: Built-in (Latch).
Adjustability: Not available.
DC OK: Available.
Overload Protection (OLP):
Fully protected against outputs overload and short circuit.
Typ. OLP set at 130% of rating output power.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 88-91% (various with the output voltage)
Switching Frequency: 90K Hz.
Circuit Topology: Half-Bridge Resonant Converter
Transient Response: Output voltage returns in less than 10mS following a 25% load change.
Safety Standard: IEC 60950-1 & IEC60601-1 Class I.
Operating Temperature: 0 to +50 °C at full load without forced air flow.
Storage Temperature: -25 to +85°C.
Cooling: Free air convection.
Construction: 5"x 3" x 1.46"PCB version.
Power Density: 6.4 Watts / 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.



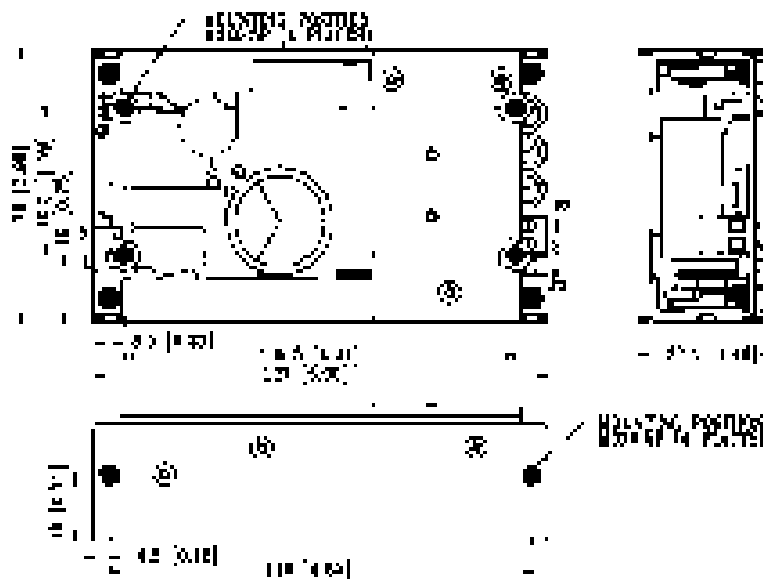
Preliminary

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★			
	Typ.	Volt.	Max.	Peak
HICM150G-S120120	12.50A	12.0V	12.50A	12.50A
HICM150G-S150100	10.00A	15.0V	10.00A	10.00A
HICM150G-S240625	6.25A	24.0V	6.25A	6.25A
HICM150G-S480312	3.12A	48.0V	3.12A	3.12A

MECHANICAL DIMENSIONS: MM [INCHES]



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT CNTR/PIN#	AC INPUT			SINGLE OUTPUT			
	AC-L	AC-N	AC-G	VO1	DC COM	Power Fail	Remote On/Off
	P1-L	P1-N	G	P2-1	P2-2	P3-1	P3-2

DRAFT