

H HITRON

UNIVERSAL INPUT HARMONIC CORRECTION (PFC) AC-DC MEDICAL APPLICATION INTERNAL OPEN FRAME SWITCHING POWER SUPPLIES 250 WATTS SINGLE OUTPUT HIMP250 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- MEET IEC 61000-3-2 HARMONIC CORRECTION (PFC)
- MEET MEDICAL STANDARD EN 60601-1/ UL 60601-1
- EMI MEET EN 55011 / FCC CLASS A
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typical 90-264Vac with PFC.

Input Connector: B-S connector. **Input Frequency:** 47-63Hz.

Inrush Current: 11.5Arms at 230Vac.

Input Current: 2.64A at 115Vac, 1.29A at 230Vac.

Dielectric Withstand: Meet IEC 60601-1. EMI: Meet EN 55011 FCC Class A. Hold-up Time: Typical 20.8mS at 115Vac,

Typical 23.2mS at 230Vac.

Power Fail Signal: Installed.

Power Factor & Harmonic Correction:

Meet IEC 61000-3-2, PF typ. 0.98-0.99 at full load. **Over Temperature Protection:** By thermostat. **Leakage Current:** Less than 0.047mA at 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: B-S connector.
Output Wattage: Typical 250 watts.
Line Regulation: Typical 1.0%.
Load Regulation: Typical ±0.5%.

Noise & Ripple: Typical 1.0% peak to peak.

OVP: Built-in.

Adjustability: Available.
Remote on/off: Available.
DC OK Signal: Installed.
Overload Protection (OLP):

Fully protected against outputs overload and short circuit.

Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typical 83-87 %. (various with output voltage).

Switching Frequency: 130KHz.

Circuit Topology: PWM fixed frequency forward circuit. **Transient Response:** Output voltage returns in less than

64mS following a 25% load change.

Safety Standard: Meet Medical standards IEC 60601-1/

UL 60601-1/EN 60601-1 Class I.

Operating Temperature: 0 to +50 °C under 30 CFM

forced air cooling.

Storage Temperature: -20 to +85°C.

Cooling: Requested 30 CFM forced air flow for full load.

Construction: U-bracket construction format. **Power Density:** 3.13Watts / Cubic Inch.

NOTE: (1)All measurement are at nominal input, full load and +25°C unless otherwise specifications.

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





In application.

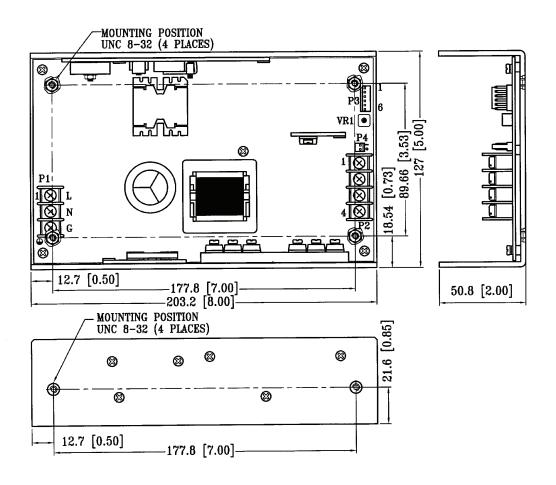
OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN OUTPUT ★			
	Тур.	Volt.		
HIMP250-S120210	21.0A	12.0Vdc		
HIMP250-S150170	17.0A	15.0Vdc		
HIMP250-S240105	10.5A	24.0Vdc		
HIMP250-S480052	5.2A	48.0Vdc		

Symbol: "★" OVP built-in.

MECHANICAL DIMENSIONS: MM [INCHES]



WEIGHT: 1.4Kg (49.3 Oz.)

INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			SINGLE OUTPUT		ASSORTED SIGNALS						
ASSIGNMENT	AC-L	AC-N	AC-G	VO1	DC COM	DC OK	FAL	EXT OFF	+S	-S	FAN	COM
CNTR/PIN#	P1-L	P1-N	P1-G	P2-1,P2-2	P2-3,P2-4	P3-1	P3-2	P3-3	P3-4	P3-5	P4-1	P4-2