

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



### **FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET IEC 61000-3-2 HARMONIC CORRECTION (PFC)
- MEET MEDICAL STANDARD EN 60601-1/ UL 2601-1
- EMI MEET EN 55011 & FCC CLASS A

### **SPECIFICATION**

#### **INPUT SPECIFICATION**

**Input Voltage:** Typ. 90-264Vac with PFC.  
**Input Connector:** B-S connector.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 11.5Arms @230Vac/50Hz.  
**Input Current:** 2.64A@115Vac, 1.29A @230Vac.  
**Dielectric Withstand:** Meet IEC 60601-1.  
**EMI:** Meet EN 55011 & FCC Class A.  
**Hold-up Time:** Typ. 20.8mS @115Vac, 23.2mS @ 230Vac.  
**Power Fail Signal:** Installed.  
**Power Factor & Harmonic Correction:**  
Meet IEC 61000-3-2, PF typ. 0.98-0.99 @ full load.  
**Over Temperature Protection:** By thermostat.  
**Earth Leakage:** Less than 0.0471mA @230Vac.

#### **OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Connector:** B-S connector.  
**Output Wattage:** Typ. 250 watts.  
**Line Regulation:** Typ. 1.0%.  
**Load Regulation:** Typ.  $\pm 0.5\%$ .  
**Noise & Ripple:** Typ. 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:** Typ. 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 2601-1/EN 60601-1 Class I.  
**Power Density:** 3.19Watts / Cubic Inch.

**Operating Temperature:** 0 to +50 °C under 30 CFM forced air cooling.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** Typ. 0.04%/°C.  
**Cooling:** 30 CFM air flow is required to deliver the full power.  
**Construction:** U-bracket construction format.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.

# OUTPUT VOLTAGE/CURRENT RATINGS CHART

2007/09/10

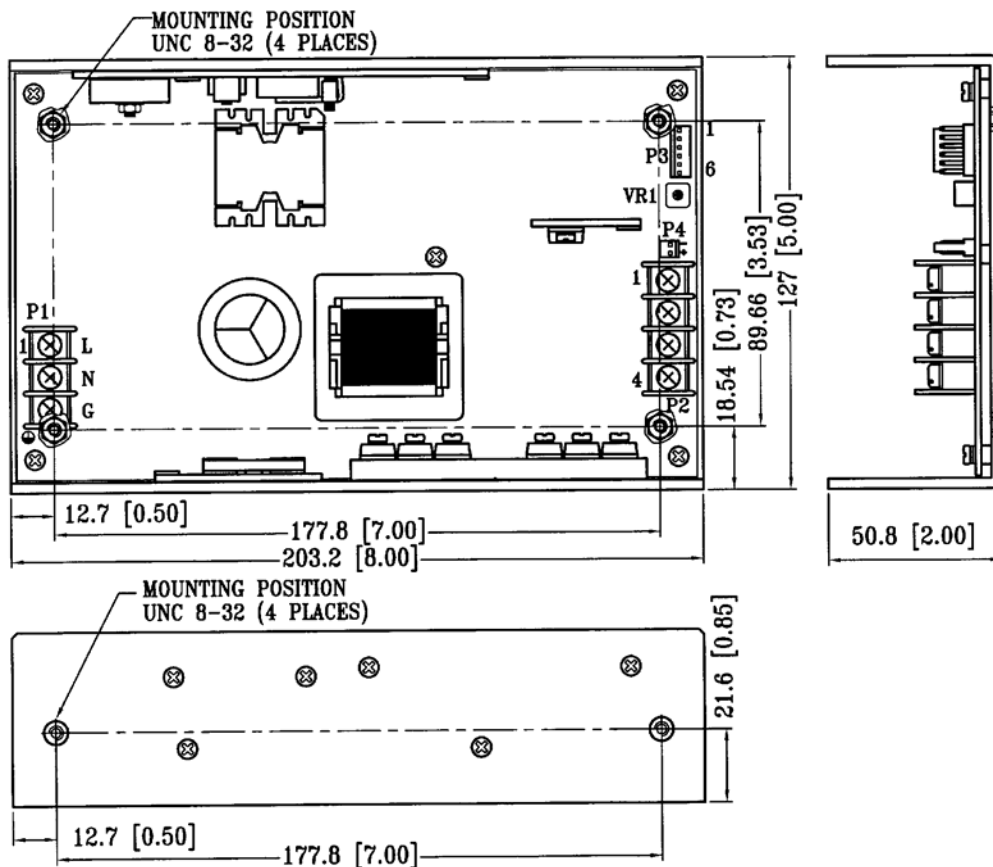
## SINGLE OUTPUT

MODEL NO.	MAIN OUTPUT	
	Typ.	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

ASSIGNMENT CNTR/PIN#	AC INPUT			SINGLE OUTPUT		ASSORTED SIGNALS						
	AC-L	AC-N	AC-G	VOI	DC COM	DC OK	FAL	EXT OFF	+S	-S	FAN	COM
	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