

# 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  $\pm 0.5\%$ .  
**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.

