

UNIVERSAL INPUT HARMONIC CORRECTION RESONANT AC-DC OPEN FRAME TRIPLE OUTPUT 200 WATTS INTERNAL SWITCHING POWER SUPPLIES HIRP200 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- 5" x 3" COMPACT SIZE IN 1U HEIGHT
- 5V STAND-BY & 12V FAN OUTPUTS
- RESONANT DESIGN CIRCUIT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS A
- CE MARKING COMPLIANCE
- POWER DENSITY AS HIGH AS 9.95W/C.I.

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.

Input Connector: V-M connector.

Input Frequency: 47-63Hz.

Inrush Current: Typ. 11.4-11.7Arms@230Vac.

Input Current: 1.95-2.16A @115Vac, 1.0-1.15A @230Vac.

Dielectric Withstand: Meet IEC 60950-1.

EMI: Meet CISPR PUB. 22 & FCC Class A.

Hold-up Time: Typ. 16-18mS @115Vac & 230Vac.

Power Fail Signal: Installed.

Remote ON/OFF: Installed.

Power Factor & Harmonic Correction:

Meet IEC 61000-3-2, PF typ.0.95@ full load.

Leakage Current: Less than 0.75-0.79mA.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Connector: V-H connectors.

Output Wattage: Max. 200W.

Line Regulation: Typ. $\pm 0.1\%$.

Load Regulation: VO1 & VO3 typ. $\pm 1\%$.

VO2 typ. $\pm 3.0\%$.

Noise & Ripple: Typ. 1.0% peak to peak.

OVP: Installed in VO1 & VO2 (Latch).

Adjustability: Available at VO1.

DC OK Signal: Installed.

Overload Protection (OLP): Fully protected against output overload and short circuit. Typical 115-130% at 115Vac.Consult the factory for the special OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 87-92%.

Switching Frequency: 100-105K Hz.

Circuit Topology: ZVS circuit.

Transient Response:

+12V and +24V voltage returns within 1mS following a 25% load change.

+48V voltage returns within 1.75mS following a 25% load change.

Safety Standard: UL 60950-1/EN 60950-1 Class I.

Operating Temperature: 0 to +50°C at full load with specified air flow.

Storage Temperature: 0 to +85°C.

Temperature Coefficient: 0.05%/°C.

Cooling: 400LFM airflow is required to deliver the full power. 200W.

Construction: PCB format.

Power Density: 9.95 Watts / Cubic Inch.

Note: (1)Due to requests in market and advances in technology, specifications subject to change without notification.

(2)All measurement are at nominal input, full load and +26°C unless otherwise specifications.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

2008/09/26

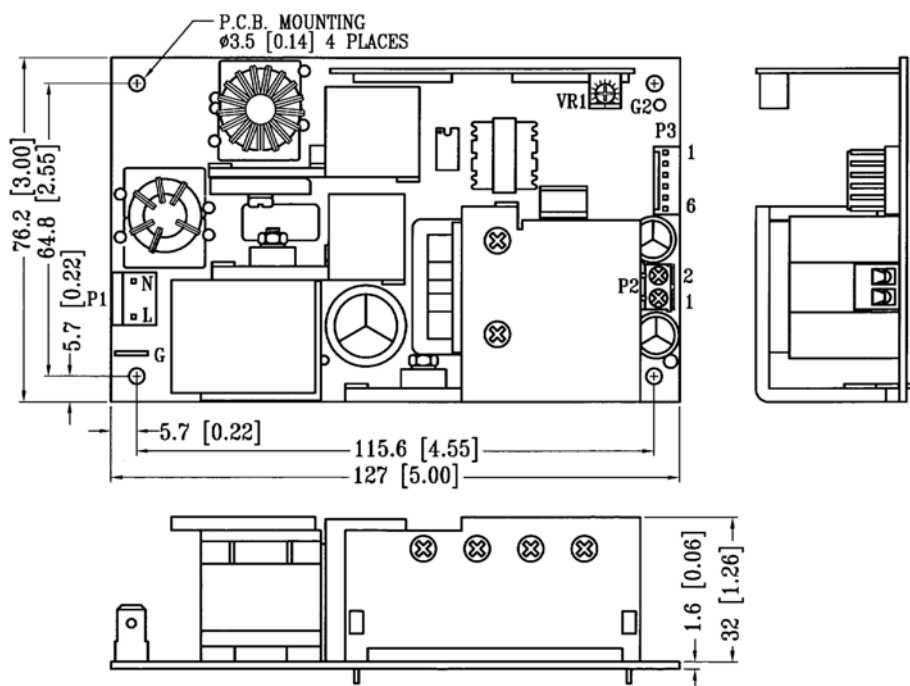
TRIPLE OUTPUT (Under forced air cooling 400LFM)

MODEL NO.	MAIN VO1 @★			VO2 ★(Fan outputs)			VO3 ★ (Standby)		
	Max.	Typ	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.
HIRP200-T120IE	16.70A	16.6A	+12V	1.0A	0.5A	+12.0V	0.1A	0.1A	+5V
HIRP200-T240IE	8.30A	8.3A	+24V	1.0A	0.5A	+12.0V	0.1A	0.1A	+5V
HIRP200-T480IE	4.16A	4.0A	+48V	1.0A	0.5A	+12.0V	0.1A	0.1A	+5V

Symbol: “★” OVP built-in. “@” Adjustable.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 500.0g (17.6 Oz)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT						POWER FAIL	REMOTE CONTROL
	AC-LINE	AC-NEUTRAL	AC-GROUND	+VO1	DC-COM	+VO2	+5VSB	DC-COM			
CNTR & PIN#	P1-2	P1-1	G	P2-2	P2-1	P3-5,6	P3-3	P3-4		P3-1	P3-2

Remark: Short P3-2 and P3-3 to enable the PSU.