

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

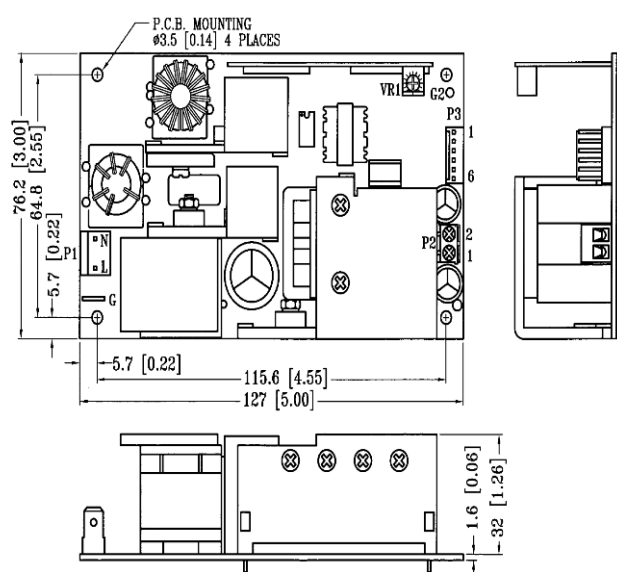
TRIPLE OUTPUT (Under forced air cooling 400LFM)

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						
	AC-LINE	AC-NEUTRAL	AC-GROUND	+VO1	DC-COM	+VO2	+5VSB	DC-COM	POWER FAIL	REMOTE CONTROL
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.