

HiTRON

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC N+1 REDUNDANCY AND ACTIVE CURRENT SHARING ENCLOSURE BOX WITH FAN TRIPLE OUTPUT 350 WATTS INTERNAL SWITCHING POWER SUPPLIES HVP348 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- NO MINIMUM LOAD REQUIREMENT
- MEET IEC 61000-3-2 HARMONIC CORRECTION
- N+1 REDUNDANCY & OR-ING DIODES
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN 55022 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Universal 90-264Vac with PFC.
Input Connector: Molex Mini-Fit (F-M) 42404-06A1.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 25A @230Vac(Active circuit).
Input Current: Typ. 5.4A @115Vac, 1.7A@ 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR EN 55022 Class B.
Hold-up Time: Typ. 38mS @ 115Vac & 230Vac.
Power Fail Signal: Indicated by LEDs.
Power Factor Correction & Harmonic Correction:
Meet IEC 61000-3-2, PF typ. 0.97-0.98 @ full load.
Remote Inhibit/Power Disable: Installed.
Earth Leakage: Less than 0.85 mA.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: Molex Mini-Fit (F-M) 42404-24A1.
Output Wattage: Typ. 350 Watts.
Line Regulation: Typ. 0.1%.
Load Regulation: Independent & fully regulated Magnetic Amplifier outputs. VO1/VO2/VO3 typ. $\pm 1.0\%$.
Noise & Ripple: Typ. 1% peak to peak.
OVP: Available at VO1,VO2 & VO3 (Latch circuit).
Redundancy: Available for N+1 redundancy & OR-ing diodes built-in at all rails.
Current Sharing: Third-wire load sharing at VO1,2,3.
Adjustability: Available at VO1,VO2 & VO3.
Over Current Protection (OCP): Installed in output VO1,VO2 and VO3.
Over Temp. Protection (OTP): By thermostat.
Overload Protection (OLP): Fully protected against output overload and short circuit. Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 75-78.0%.
Switching Frequency: 60K Hz.
Circuit Topology: PWM fixed-frequency forward circuit.
Transient Response: Output voltage returns in less than 3ms following a 25% load change.
Safety Standard: UL 60950-1/EN 60950-1 Class I.
Power Density: 2.8Watts / Cubic Inch.
Operating Temperature: 0 to +50°C.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: 0.04%/°C.
Cooling: Internal cooling fan installed.
Construction: Enclosure box installed with internal cooling fan.
Hot Swappable (Insertion): Installed.

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



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

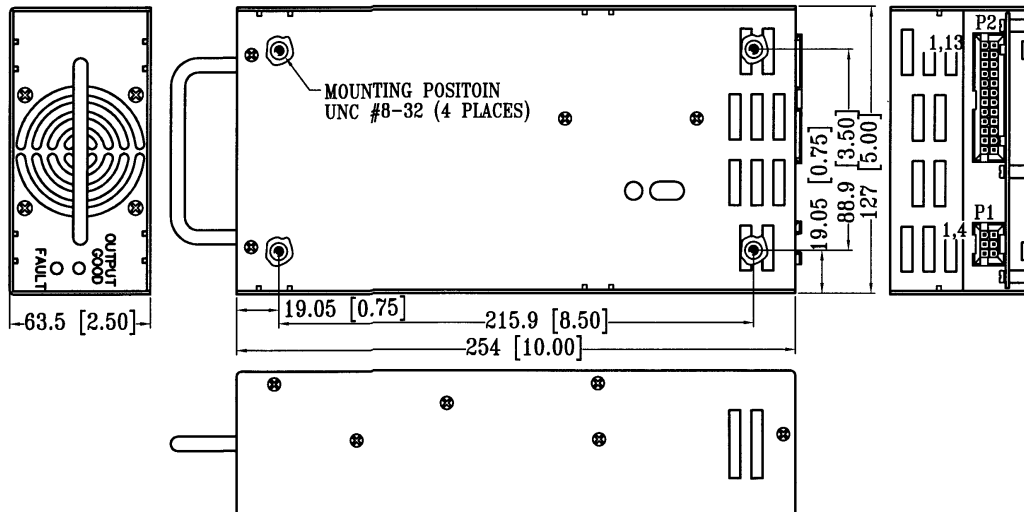
TRIPLE OUTPUT

MODEL NO.	+VO1 ▲@★≡⊙		+VO2 ▲@★≡⊙		+VO3 ▲@★≡⊙	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HVP348-T050DI	28.0A	+5.0V	20.0A	+3.3V	10.0A	+12.0V
HVP348-T033EI	28.0A	+3.3V	22.0A	+5.0V	10.0A	+12.0V
HVP348-T050II	28.0A	+5.0V	10.0A	+12.0V	6.0A	+12.0V
HVP348-T033II	28.0A	+3.3V	12.0A	+12.0V	8.0A	+12.0V
HVP348-T050MI	28.0A	+5.0V	5.0A	+24.0V	6.0A	+12.0V
HVP348-T240EI	7.0A	+24.0V	14.0A	+5.0V	8.0A	+12.0V

Symbol: "★" OVP built-in. "@" Adjustable. "≡" 3rd-wire current sharing. "▲" Installed with magnetic amplifier. "⊙" Installed with OR-ing diode.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 1,200.0g (42.3 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT				ASSORTED SIGNALS						
	AC-L	AC-N	AC-G	VO1	VO2	VO3	DC-COM	VO1≡	VO2≡	VO3≡	Fan Fail	Inhibit	Power Good	Power Disable
CONNECTOR & PIN#	P1-1	P1-5	P1-3	P2-1,2, P2-13,14	P2-7,8,20	P2-9,21	P2-3,4,5,15 16,17,18,19	P2-22	P2-10	P2-23	P2-11	P2-24	P2-12	P2-6

Mating connector: Molex Mini-Fit 42385-06A1.
Molex Mini-Fit 42385-24A1.