

HiTRON

UNIVERSAL INPUT HARMONIC CORRECTION(PFC) AC-DC N+1 REDUNDANCY AND LOAD SHARING INTERNAL 1U RACK SWITCHING POWER SUPPLIES 300 WATTS DUAL OUTPUT HVP300 SERIES



FEATURES:

- 1U HEIGHT RACK POWER SUPPLY
- BUILT-IN 5V STANDBY POWER
- BUILT-IN ACTIVE PFC FUNCTION
- INTERNAL OR-ING DIODES FOR N+1 REDUNDANCY
- HOT-SWAPPABLE
- HIGH EFFICIENCY & DENSITY
- PMBus COMMUNICATION
- CE MARKING COMPLIANT

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac.
Power Factor: Meet Harmonic Correction IEC 61000-3-2.
Power Factor typ. 0.99.
Input Connector: IEC320-C14 3prong.
Input Frequency: 47-63Hz.
Inrush Current: 13A(rms) at 230Vac;
54A (peak) at 230Vac.
Input Current: 2.9A at 115Vac / 1.4A at 230Vac.
Dielectric Withstand: Meet IEC 60950-1 regulation.
EMI: Meet EN 55022 FCC Class B.
Hold-up Time: Typ. 8mS at 115Vac.
Remote ON/OFF: Available.
Power Fail Signal: Available.
Over Temperature Protection (OTP): Installed NTC and
thermostat.
Leakage Current: Typ. 0.8mA at 230Vac.
No-Load Power: Typ.8Watt at 115Vac & 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Power: Total continuous 300W.
Output Connector: ALLTOP C24501-128H1-Y.
Line Regulation: VO1/2 typ. $\pm 1\%$.
Load Regulation: VO1 typ. $\pm 1\%$, VO2 typ. $\pm 5\%$.
Total Regulation: VO1 typ. $\pm 2\%$, VO2 typ. $\pm 6\%$.
Noise & Ripple: Typ. 1% peak-peak.
OVP: Built-in at all outputs.
Adjustability: Available for VO1.
Hot-Swap: Available.
N+1 Redundancy: Installed with internal OR-ing diodes
at all outputs and third-wire current sharing method for
N+1 redundancy operation.
Current Sharing: Available for VO1.
DC OK Signal: Available for VO1/2.
Over Current Protection (OCP): Built-in VO1.
Overload Protection (OLP): Fully protected against output
overload or short circuit. OLP set at about 120-130%
rating output wattage. Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 90% at 230Vac.
Switching Frequency: 85-100KHz.
Circuit Topology: Half-bridge circuit ZVS circuit.
Transient Response: Peak transient less than 200mV and
recover within 1.5ms at 25% load-change.
Safety Standard: IEC 60950-1 Class I.
Construction: 1U Rack Format.

Operating Temperature: -10 °C to +70 °C (refer to derating chart)
Storage Temperature: -40°C to +85 °C.
Cooling: Built-in one internal DC ball bearing fan
with smart fan speed control.
Power Density: Typ. 9.4 Watts/ cubic inch.
PMBus: Built-in.

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.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

DUAL OUTPUT w/Standby Power

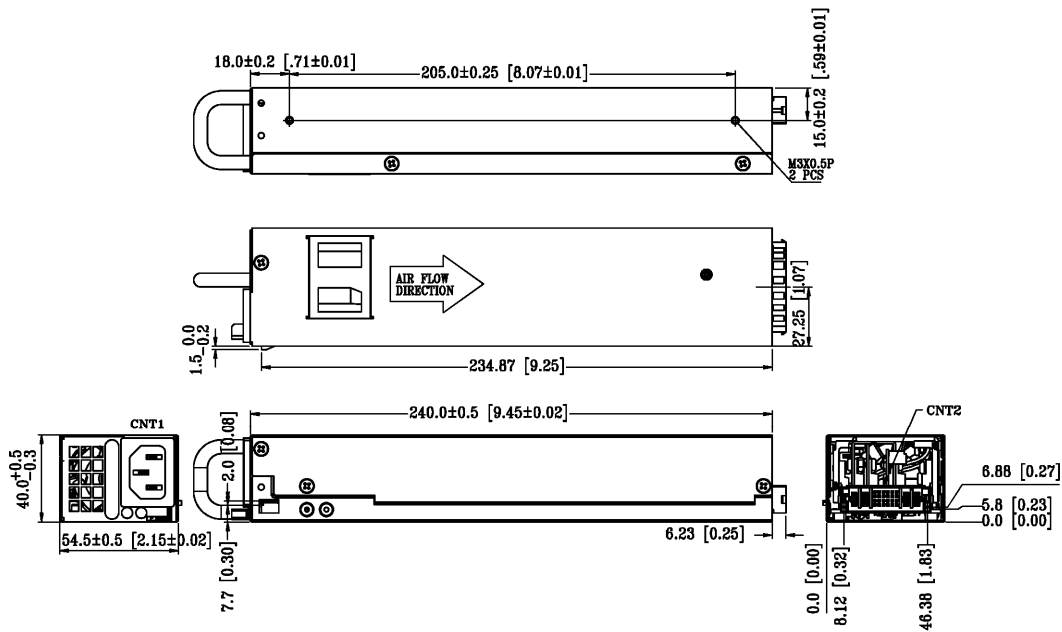
MODEL NO.	MAIN +VO1 @ ★≡⊙					STANDBY +VO2 ⊙★				
	Min.	Typ.	Volt.	Max.	Peak	Min.	Typ.	Volt.	Max.	Peak
HVP300-D120E	0A	25A	+12V	25A	25A	0A	0.5A	+5V	0.5A	0.5A

Symbol: "★" OVP built-in. "@" Adjustable. "≡" Load Sharing. "⊙" Installed with Or-ing diode.

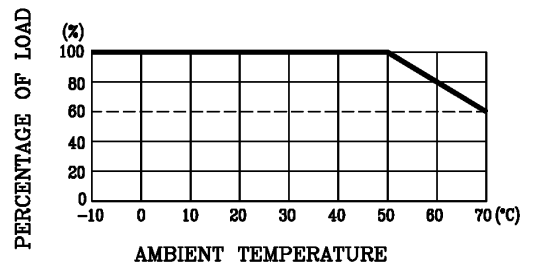
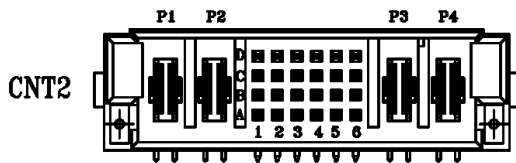
Remark: Maximum Output Power <=300 Watt

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 768g (27Oz)



DERATING CHART



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

CNT1			CNT2									
L	N	G	P1	P2	D1	D2	D3	D4	D5	D6	P3	P4
LINE	NEUTRAL	GND	VO1	COM	Alert	A2	DGND	5Vsb	N/A	N/A	N/A	N/A
					C1	C2	C3	C4	C5	C6		
					PS PRNT	A1	PS EN IN	DCOK 12V L	N/A	N/A		
					B1	B2	B3	B4	B5	B6		
					12V_CS	A0	PS EN_OUT	N/A	N/A	N/A		
A1	A2	A3	A4	A5	A6							
			SCL	SDA	AC FAIL	FAN FAL	N/A	N/A				