H HiTRON

UNIVERSAL INPUT HARMONIC CORRECTION(PFC) AC-DC N+1 REDUNDANCY AND LOAD SHARING INTERNAL 1U RACK SWITCHING POWER SUPPLIES 600 WATTS DUAL OUTPUT HVP600 SERIES



FEATURES:

- **1U HEIGHT RACK POWER SUPPLY**
- **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. 0.98.
Input Connector: IEC320-C14 3prong.
Input Frequency: 47-63Hz.
Inrush Current: 11A(rms) at 230Vac; 35A (peak) at 230Vac.
Input Current: 5.8A at 115Vac / 2.8A at 230Vac.
Dielectric Withstand: Meet IEC 60950-1 regulation.
EMI: Meet EN 55022 FCC Class B.
Hold-up Time: Typ. 10mS at 115Vac.
Remote ON/OFF: Available.
Power Fail Signal: Available.
Over Temperature Protection (OTP): Installed NTC and thermostat.
Leakage Current: Typ. 1mA at 230Vac.
No-Load Power: Typ. 9Watt at 115Vac & 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Power: Total continuous 600W.
Output Connector: ALLTOP C24501-128H1-Y.
Line Regulation: VO1/2 typ. ±1%.
Load Regulation: VO1/2 typ. ±2%.
Total Regulation: VO1/2 typ. ±3%.
Noise & Ripple: Typ. 1% peak-peak.
OVP: Built-in at all outputs.
Adjustability: Available for all outputs.
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 all outputs.
DC OK Signal: Available for all outputs.
Over Current Protection (OCP): Built-in.
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. 92% at 230Vac.
Switching Frequency: 85-100KHz.
Circuit Topology: Half-bridge circuit ZVS circuit.
Transient Response: Peak transient less than 280mV and recover within 3mS 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. 11 Watts/ cubic inch.
PMBus: Built-in.

NOTE: (1)All measurement are at nominal input, full load and +25℃ unless otherwise specifications.
(2)Due to requests in market and advances in technology, specifications subject to change without notification.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

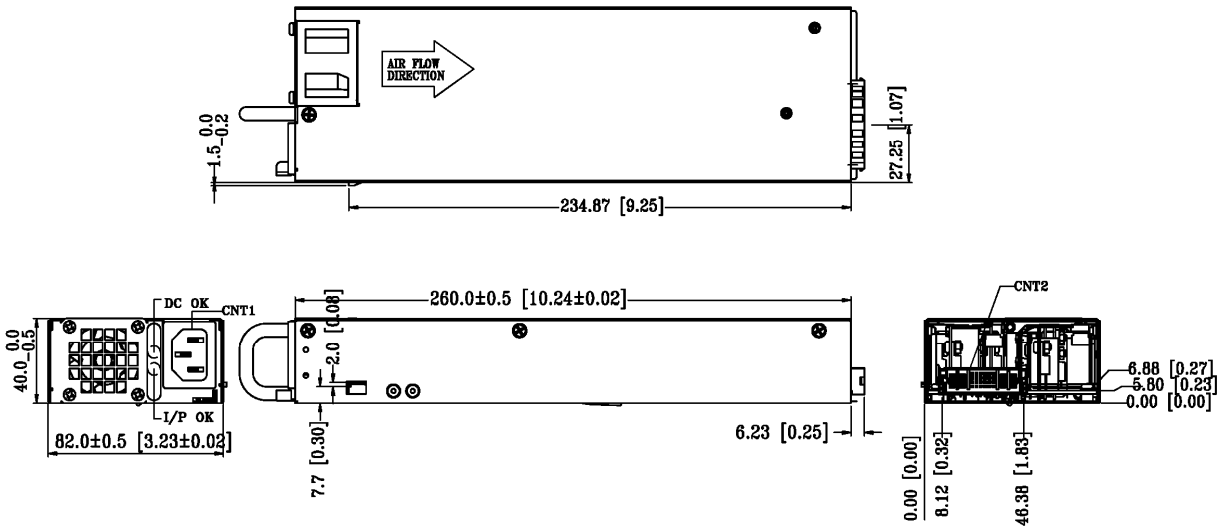
DUAL OUTPUT

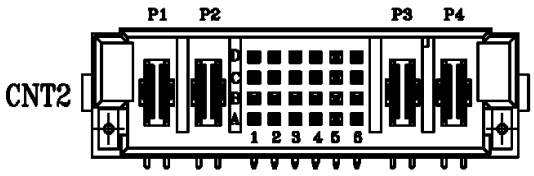
MODEL NO.	MAIN +VO1 @★≡⊙					AUX +VO2 @★≡⊙				
	Min.	Typ.	**Volt.**	Max.	Peak	Min.	Typ.	**Volt.**	Max.	Peak
HVP600-D560I	0A	7.2A	**+56V**	7.2A	7.2A	0A	16.6A	**+12V**	16.6A	16.6A

Symbol: "★" OVP built-in. "@" Adjustable. "≡" Load Sharing. "⊙" Installed with Or-ing diode.
Remark: Maximum Output Power <=600 Watt

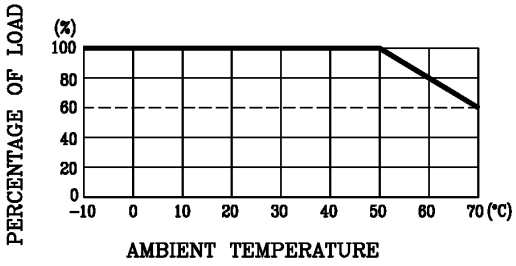
MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 1.24kgs (2.74lb)





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	VO2	COM	Alert	A2	DGND	5VSB	N/A	56V_CS	VO1 RTN	VO1
					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	DCOK_56V_L	N/A	N/A		
					A1	**A2**	**A3**	**A4**	**A5**	**A6**		
					SCL	SDA	AC_FAIL	FAN_FAL	N/A	N/A		