

HiTRON

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC OPEN FRAME DUAL OUTPUT 180 WATTS INTERNAL SWITCHING POWER SUPPLIES HVP180 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- OR-ING DIODES FOR PARALLEL OPERATION
- MEET IEC1000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.
Input Connector: AMP 643495-2 connector or Molex 5273-5A.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 30A @ 230Vac.
Input Current: Typ. 2.4A@115Vac, 1.2A @230Vac.
Dielectric Withstand: Meet IEC950.
EMI: Meet CISPR PUB. 22 Class B.
Hold-up Time: Typ. 30mS @115Vac & 230Vac.
Power OK Signal: Installed.
Power Factor Correction: Meet Harmonic Correction per IEC1000-3-2 PF typ. 0.97-0.98.
Over Temperature Protection: By thermostat.
Earth Leakage: Typ. 0.5 mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: AMP 640445-0 & 640456-2 or Molex 5273-10A & 6410-2A.
Output Wattage: Typ. 180 watts.
Line Regulation: Typ. 0.1%.
Load Regulation: Main O/P VO1 $\pm 1\%$ typ.
 Aux. O/P VO2 $\pm 5\%$ typ.
 (Common choke & stacked on VO1.)
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in at main O/P VO1 only.
Remote Sensing: Available at VO1.
OR-ing diodes: Installed in each output.
Adjustability: Available at VO1.
Overload Protection (OLP): Fully protected against output overload and short circuit. Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 73-76%.
Switching Frequency: Fixed frequency at 65K Hz.
Circuit Topology: PWM fixed-frequency forward circuit.
Transient Response: Output voltage returns in less than 3ms following a 25% load change.
Safety Standard: UL1950/EN60950 Class I.
Operating Temperature: 0 to +50°C.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: 0.04%/°C.
Cooling: Recommended 30 cfm fan cooling for full load.
Construction: U-bracket format.
Power Density: 3.43 Watts / Cubic Inch.



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

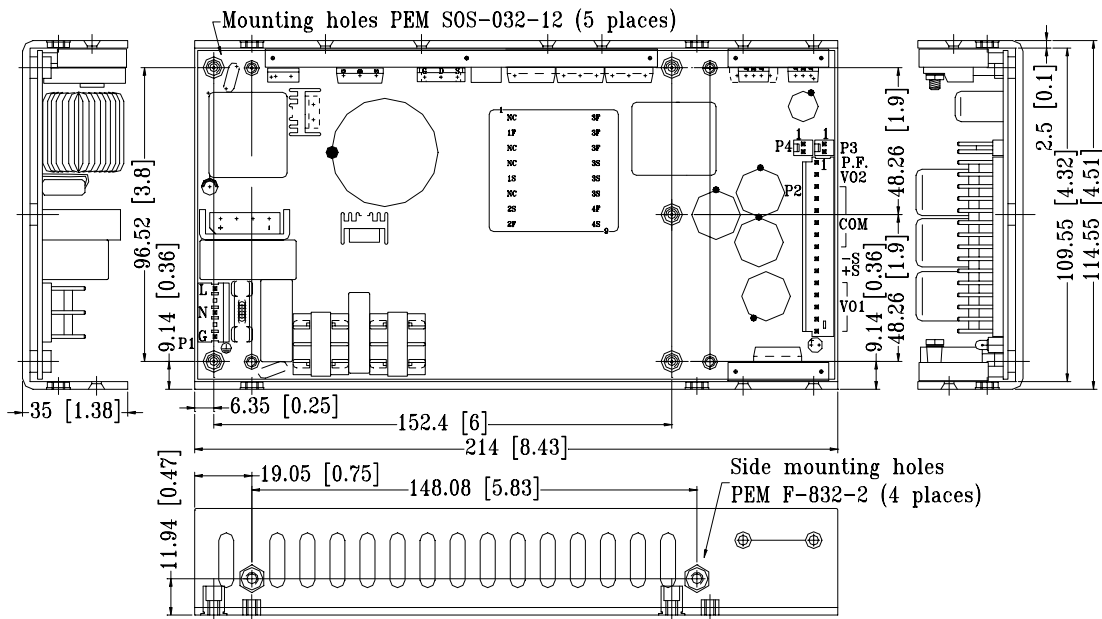
DUAL OUTPUT

MODEL NO.	MAIN VO1 @★#○		AUX. VO2 ■○†	
	Typ.	Volt.	Typ.	Volt.
HVP180-21	25.0A	+5.0V	5.0A	+12.0V
HVP180-22	25.0A	+5.0V	4.0A	+15.0V
HVP180-23	25.0A	+5.0V	3.0A	+24.0V
HVP180-290	25.0A	+3.3V	10.0A	+5.0V
HVP180-291	25.0A	+3.3V	5.0A	+12.0V
HVP180-292	25.0A	+3.3V	4.0A	+15.0V
HVP180-293	25.0A	+3.3V	3.0A	+24.0V

Symbol: "★" OVP built-in. "@" Adjustable. "†" Stacked on main O/P.
 "■" Couple Filter Choke. "○" With Or-ing diode. "#" Remote sensing.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 940.0g (33.1 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			DUAL OUTPUT			ASSORTED SIGNALS				
	AC-L	AC-N	AC-G	VO1	VO2	DC-COM	PFS	+VO1#	-VO1#	FAN (-)	FAN (+)
CNTR & PIN #	P1-5	P1-3	P1-1	P2-11,12,13,14,15	P2-2	P2-3,4,5,6,7,8	P2-1	P2-9	P2-10	P3-1,P4-1	P3-2,P4-2

Mating connector: P1: AMP 640426-5 or Molex 5239-5A.
 P2: AMP 640427-0 or Molex 5239-10A, 5195-10A.
 P3 & P4: AMP 640440-2 or Molex 2695-2A.