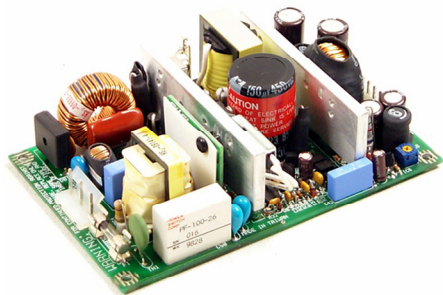




**UNIVERSAL INPUT HARMONIC CORRECTION AC-DC PCB
OPEN FRAME SINGLE & DUAL OUTPUT 95 WATTS
INTERNAL SWITCHING POWER SUPPLIES HVP95 SERIES**



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- 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: Molex V-M connector.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 20A@230Vac.
Input Current: Typ. 2.5A @115Vac, 1.2A @230Vac.
Dielectric Withstand: Meet IEC950.
EMI: Meet CISPR PUB. 22 Class B.
Hold-up Time: Typ. 30mS @115Vac & 230Vac.
Over Temp. Protection: By thermostat.
Power Factor Correction: Meet Harmonic Correction per IEC1000-3-2. PF typ. 0.98.
Earth Leakage: Less than 0.5mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: Molex V-M connector.
Output Wattage: Typ. 95 Watts under forced air flow.
Line Regulation: Typ. 0.1-0.5%.
Load Regulation: Main VO1± 1.0% typ.
Aux.VO2 ± 2-3.0% typ. (Common choke).
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main VO1 only.
Adjustability: Available at main VO1.
Overload Protection (OLP): Fully protected against output overload and short circuit.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 75%.
Switching Frequency: Fixed frequency at 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: UL1950/EN60950 Class I

Operating Temperature: 0 to +50°C with 20 cfm forced air cooling for full load.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typ. 0.04%/°C.
Cooling: Required 20 cfm forced air flow.
Construction: PCB open frame format.
Power Density: 3.28Watts / Cubic Inch.



In application

OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT (Under forced air flow)

MODEL NO.	MAIN VO1 @★ Typ. Volt.
HVP95-10	19.0A 5.0V
HVP95-11	8.0A 12.0V
HVP95-12	6.5A 15.0V
HVP95-13	4.5A 24.0V
HVP95-14	4.0A 28.0V
HVP95-15	3.0A 36.0V
HVP95-16	3.2A 32.0V
HVP95-17	2.1A 48.0V
HVP95-19	25.0A 3.3V

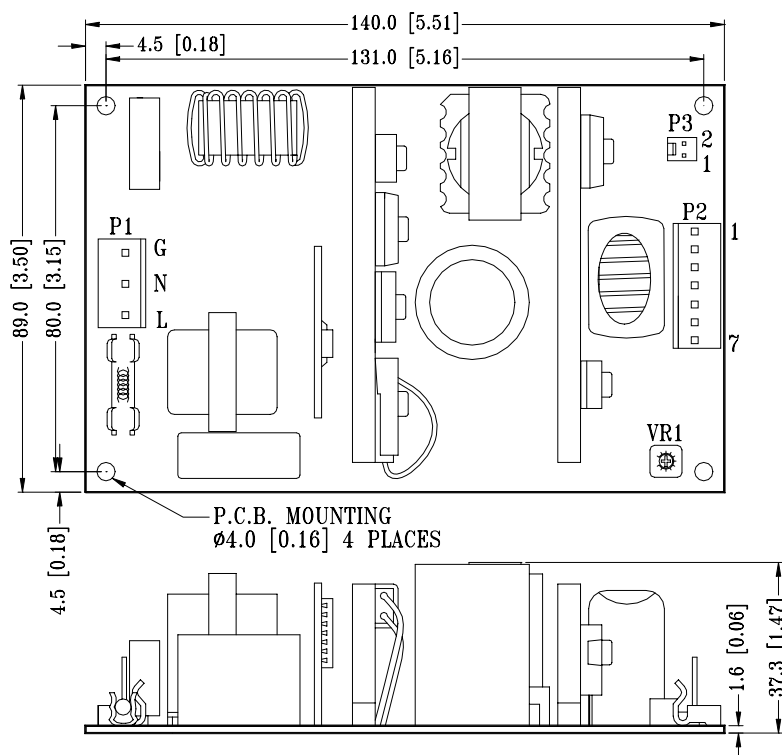
DUAL OUTPUT (Under 20 cfm forced air flow)

MODEL NO.	MAIN VO1 @★ Typ. Volt.	AUX. VO2 ■ Typ. Volt.
HVP95-21	10.0A +5.0V	4.0A +12.0V
HVP95-22	10.0A +5.0V	3.2A +15.0V
HVP95-23	10.0A +5.0V	2.0A +24.0V
HVP95-291	15.0A +3.3V	4.0A +12.0V
HVP95-292	15.0A +3.3V	3.2A +15.0V
HVP95-293	15.0A +3.3V	2.0A +24.0V

Symbol: "★" OVP built-in. "@" Adjustable. "■" Couple common choke.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 454.0g(16.0 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT			DUAL OUTPUT			
	AC-LINE	AC-NEUTRAL	AC-GROUND	VO1	DC COM	FAN DRIVING	VO1	VO2	DC-COM	FAN DRIVING
CNTR & PIN#	P1-1 (L)	P1-2 (N)	P1-3 (G)	P2-1,2	P2-3,4,5 / P3-1	P3-2	P2-1,2	P2-6,7	P2-3,4,5 / P3-1	P3-2

Mating connector: P1/P2: Molex 5195 or 5239 series. P3: Molex 5051 or equivalent.