

TOTAL POWER INT'L

UNIVERSAL INPUT AC-DC PCB OPEN FRAME QUAD OUTPUT

14 WATTS INTERNAL SWITCHING POWER SUPPLIES

TPV114 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT PCB FORMAT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range typ. 90-264Vac.
Rating 100 to 240Vac.

Input Connector: Molex # 5273.

Input Frequency: 47-63Hz.

Inrush Current: Typ. 20A @230Vac.

Input Current: Typ. 0.30A @115Vac, 0.15A@230Vac.

Dielectric Withstand: Meet IEC950.

EMI: Meet CISPR PUB.22 & FCC Class B.

Hold-up Time: 14mS @115Vac, 50mS @230Vac.

Earth Leakage: Typ. 0.6mA @230Vac.

Overload Protection (OLP): Fully protected against output overload and short circuit.
Consult the factory for OLP setting.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 14 watts.

Output Connector: Molex # 5267-NA.

Line Regulation: Typ. 0.1%.

Load Regulation: Main VO1 typ. $\pm 3.0\%$
Aux. VO2,3,4 typ. $\pm 5\%$ (P.R.).

Noise & Ripple: Typ. 1% peak to peak.

OVP: Built-in at VO1 (Zener diode).

Adjustability: Available at main VO1.

DC OK: Available at main VO1.

GENERAL SPECIFICATION

Efficiency: Typ. 70%.

Switching Frequency: 40K Hz.

Circuit Topology: Fixed frequency flyback Circuit.

Transient Response: Output voltage returns in less than 3mS following a 25% load change.

Safety standard: IEC950/UL1950 Class II.

Operating Temperature: 0 to +50°C.

Storage Temperature: -20 to +85°C.

Temperature Coefficient: Typ. 0.04% /°C.

Cooling: Free air convection.

Construction: PCB open frame format.

Power Density: 1.36 Watts / Cubic Inch.



OUTPUT VOLTAGE/CURRENT RATINGS CHART

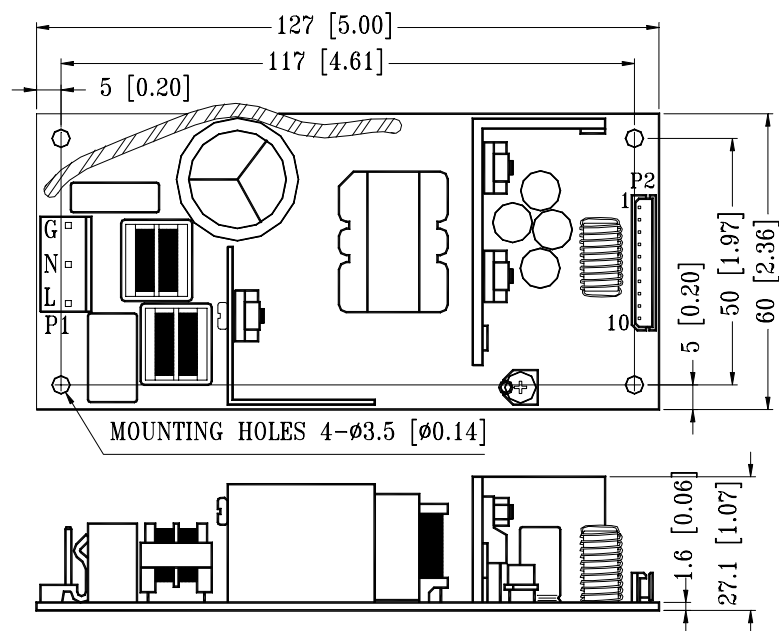
QUAD OUTPUT

MODEL NO.	MAIN VO1 @★		AUX. VO2 ●		AUX. VO3 ●		AUX. VO4 ●	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
TPVI14-Q033EKK	2.5A	+3.3V	0.3A	+5.0V	0.06A	+15V	0.06A	-15V
TPVI14-Q033EII	2.5A	+3.3V	0.3A	+5.0V	0.08A	+12V	0.08A	-12V
TPVI14-Q033EIE	2.5A	+3.3V	0.3A	+5.0V	0.08A	+12V	0.20A	-5V
TPVI14-Q050DKK	2.0A	+5.0V	0.5A	+3.3V	0.06A	+15V	0.06A	-15V
TPVI14-Q050DII	2.0A	+5.0V	0.5A	+3.3V	0.08A	+12V	0.08A	-12V
TPVI14-Q050DIE	2.0A	+5.0V	0.5A	+3.3V	0.08A	+12V	0.20A	-5V

Symbol: "★" OVP built-in. "@" Adjustable. "●" Installed with Post Regulator (P.R.).

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 151.0g (5.32 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT		QUAD OUTPUT						
	AC-L	AC-N	VO1	VO2	VO3	VO4	DC COM	P. GOOD	NC
CONNECTOR & PIN #	P1-L	P1-N	P2-1,2	P2-5	P2-6	P2-7	P2-3,4,8	P2-9	P2-10

Mating connector: P1 Molex 5195 or 5239 series.

P2 Molex 5264-N series.