

# 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

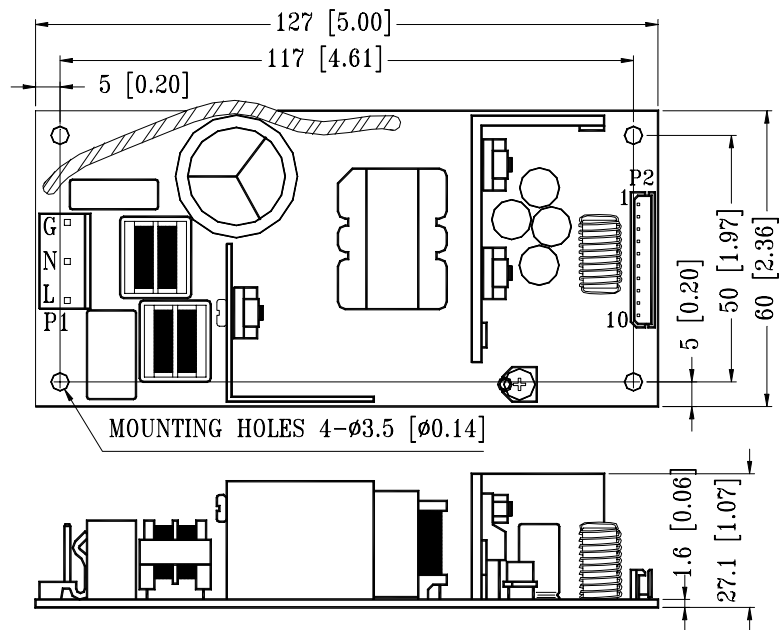
## QUAD OUTPUT

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.