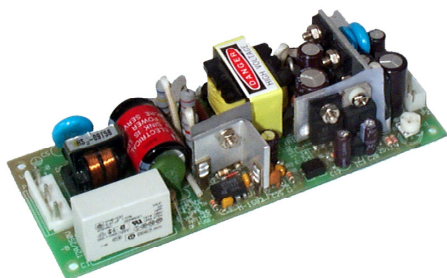


# **TOTAL POWER INT'L**

## **UNIVERSAL INPUT AC-DC PCB OPEN FRAME TRIPLE OUTPUT**

### **17-18 WATTS INTERNAL SWITCHING POWER SUPPLIES**

#### **TPVI17 SERIES**



#### **FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT PCB OPEN FRAME 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 100-240Vac.

**Input Connector:** Molex 5273 or JST B5P-VH.

**Input Frequency:** 47-63Hz.

**Inrush Current:**  $\leq 30.6A$  @ 230Vac by thermister.

**Input Current:** Typ. 0.6mA @ 115Vac, 0.3mA @ 230Vac.

**Dielectric Withstand:** Meet IEC950.

**EMI:** Meet CISPR PUB.22 & FCC CLASS B.

**Hold-up Time:** Typ. 20mS @ 110Vac, 80mS @ 230Vac.

**Earth Leakage:** Typ. less than 0.3mA @ 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. 17-18 Watts.

**Output Connector:** Molex 5267-NA or JST B8B-XH-A.

**Line Regulation:** Typ. 0.1%.

**Load Regulation:** Main VO1: typ.  $\pm 1.0-2.0\%$ .  
Aux. VO2 & VO3: typ.  $\pm 2-3.0\%$  (P.R.).

**Noise & Ripple:** VO1 typ. 2% peak to peak.  
VO2 & VO3 typ. 1% peak to peak.

**OVP:** Built-in main VO1 only.

**Adjustability:** Available at main VO1 only.

##### **GENERAL SPECIFICATION**

**Efficiency:** Typ. 70%.

**Switching Frequency:** Fixed-freq. at 38K Hz.

**Circuit Topology:** Fixed-frequency flyback 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:** Typ. 0.04% /°C.

**Cooling:** Free air convection.

**Construction:** PCB open frame format.

**Power Density:** 1.82 Watts / Cubic Inch.



# OUTPUT VOLTAGE/CURRENT RATINGS CHART

## TRIPLE OUTPUT

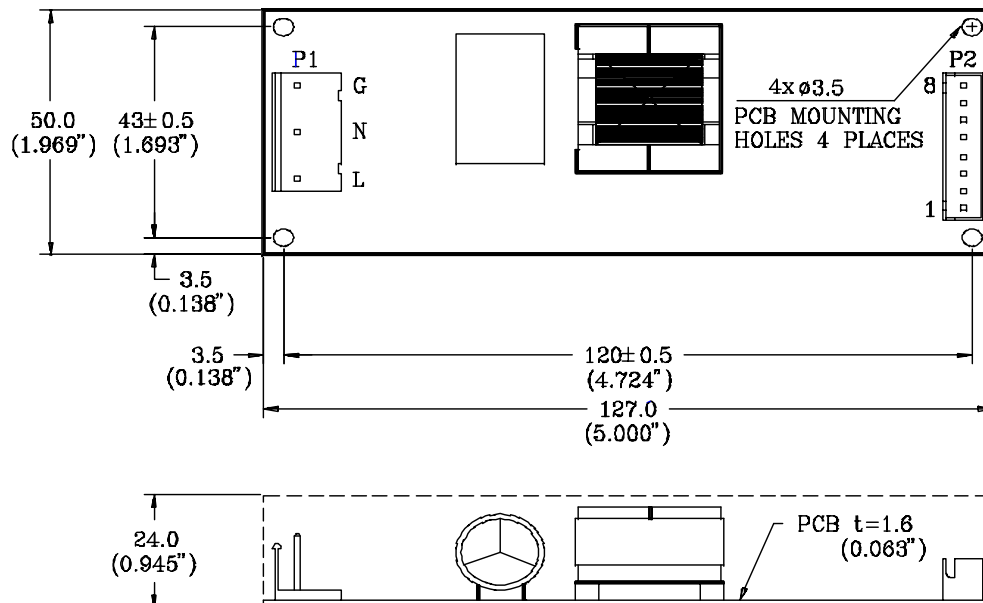
MODEL NO.	MAIN VO1 @★◇			AUX. VO2 •			AUX. VO3 •		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
TPVI17-30	2.2A	+5V	3.0A	0.3A	+12V	0.6A	0.2A	-12V	0.3A
TPVI17-31	2.2A	+5V	3.0A	0.3A	+12V	0.6A	0.2A	-5V	0.3A
TPVI17-33	2.2A	+5V	3.0A	0.3A	+15V	0.6A	0.2A	-15V	0.3A

Symbol: "★" OVP built-in. "@" Adjustable. "◇" Floating (or isolated) output. "•" Installed with Post Regulator (P.R.).

Remark: (1) At least 20% of typical main output current is required to maintain stated regulation.  
 (2) Max. current can't be drawn from all output at the same time.

## MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 150.0g (5.3 Oz.)



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT				
	AC-LINE	AC-NEUTRAL	AC-GROUND	+VO1	-VO1	VO2	VO3	DC COM
CONNECTOR & PIN #	P1-L	P1-N	P1-G	P2-1,2	P2-3,4	P2-5	P2-8	P2-6,7

Mating connector: P1 Molex 5195 or 5239 series/JST VHR-5N.

P2 Molex 5264-N/JST XHP-8 or equivalent.