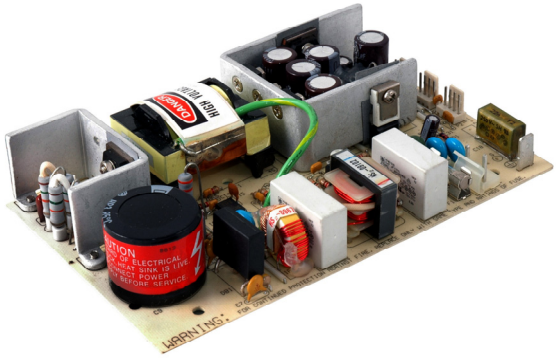
TOTAL POWER INT'L

UNIVERSAL INPUT AC-DC PCB OPEN FRAME TRIPLE OUTPUT 65 WATT INTERNAL SWITCHING POWER SUPPLIES TPVI65 SERIES



FEATURES:

- **ACCOMMODATE UNIVERSAL AC SOURCES**
- **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 to 240Vac.
Input Connector: V-M connectors & Faston.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 25A peak at 264Vac.
Input Current: Typ. 1.4A @115Vac, 0.7A @230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR PUB. 22 & FCC Class B.
No Load Operation: No damage.
Overshoot: No voltage spike.
Hold-up Time: Typ. 15mS @ 115Vac, 60mS @ 230Vac.
Earth Leakage: Less than 0.5mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: V-M connectors.
Output Wattage: Typ. 65 Watts.
Line Regulation: Typ. 0.1%.
Load Regulation: Main VO1 typ. ±1.0-2.0%.
Aux. VO2 typ. ±2.0-3.0%. (P.R.)
Aux. VO3 typ. ±2.0-3.0%. (P.R.)
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main VO1 (Crowbar).
Adjustability: Available at main VO1.
Overload Protection (OLP):
Fully protected against output overload and short circuit.
OLP set at about 125-150% rating output wattage.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 72%.
Switching Frequency: Fixed freq.65K Hz.
Circuit Topology: Fixed Frequency Flyback Circuit.
Transient Response: Output voltage returns in less than 3mS following a 25% load change.
Safety Standard: EN 60950-1/UL 60950-1 Class I.
Operating Temperature: 0 to +50°C.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typ. 0.03% /°C.
Cooling: Free air convection cooling.
Construction format: PCB format.
Power Density: 2.0 Watts / Cubic Inch.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.

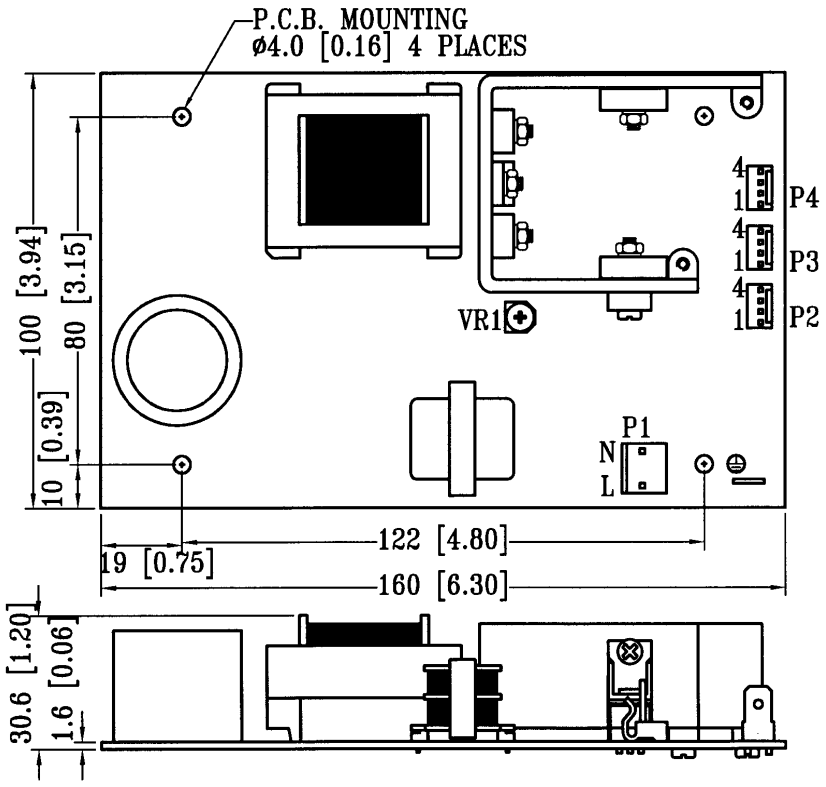
OUTPUT VOLTAGE / CURRENT RATINGS CHART

TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★		AUX. +VO2 •		AUX. -VO3 •	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
TPVI65-30	5.0A	**+5V**	2.0A	**+12V**	1.5A	**-12V**
TPVI65-31	5.0A	**+5V**	2.0A	**+12V**	2.0A	**- 5V**
TPVI65-32	5.0A	**+5V**	1.0A	**+24V**	1.5A	**-12V**
TPVI65-33	5.0A	**+5V**	1.6A	**+15V**	1.2A	**-15V**

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

MECHANICAL DIMENSIONS: MM [INCHES] **WEIGHT:** 348.0g (12.27 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			TRIPLE OUTPUT			
ASSIGNMENT	**AC-L**	**AC-N**	**AC-G**	**VO1**	**DC COM**	**VO2**	**VO3**
CONNECTOR & PIN#	P1-5 (L)	P1-3 (N)	FASTON	P2,3,4-1	P2,3,4,-2	P2,3,4-3	P2,3,4-4

Mating connector: Molex 5195 or 5239 series.