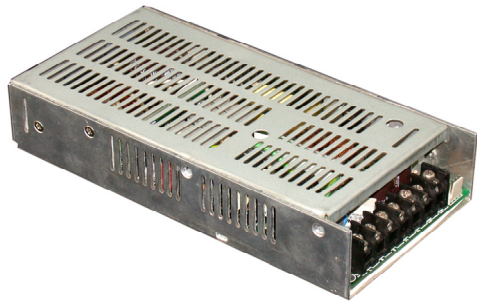


Total Power International, Inc.

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC OPEN FRAME SINGLE & MULTI-OUTPUT 100 WATTS INTERNAL SWITCHING POWER SUPPLIES TPVP100 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET IEC 61000-3-2 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: B-S connector.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 20A @230Vac (active).
Input Current: 1.6A@115Vac, 0.6A@230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR PUB. 22 Class B.
Hold-up Time: Typ. 30mS @ 115Vac & 230Vac.
Power Fail Signal: Installed.
Power Factor Correction: Meet Harmonic Correction per IEC 61000-3-2.PF typ. 0.98.
Earth Leakage: Less than 0.5mA.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: B-S connector.
Output Wattage: Typ. 100 Watts.
Line Regulation: Typ. 1.0%.
Load Regulation: Main VO1 typ. $\pm 1.0\%$.
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main VO1 only.
Remote Sense: Installed in VO1.
Adjustability: Available at main O/P 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. 74-79%.
Switching Frequency: Fixed frequency at 85 or 80K Hz.
Circuit Topology: PWM fixed frequency forward circuit.
Transient Response: Output voltage returns in less than 3mS following a 25% load change.
Safety Standard: UL 60950-1/EN 60950-1 Class I.
Operating Temperature: 0 to +50°C.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typ. 0.04% /°C.
Cooling: Free air convection.
Recommended 20cfm fan cooling for full load.
Construction: Enclosure box or L-bracket format.
Power Density: 2.16Watts / Cubic Inch.

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



For the details of safety approval, please consult the factory.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 @★#	
	Typ.	Volt.
TPVP100-10	20.0A	5.0V
TPVP100-11	8.5A	12.0V
TPVP100-12	7.0A	15.0V
TPVP100-13	4.5A	24.0V
TPVP100-14	4.0A	28.0V
TPVP100-15	3.0A	36.0V
TPVP100-17	2.1A	48.0V
TPVP100-19	25.0A	3.3V

DUAL OUTPUT

MODEL NO.	MIAN VO1 @★		AUX. VO2 †■	
	Typ.	Volt.	Typ.	Volt.
TPVP100- 21	10.0A	+5.0V	4.0A	+12V
TPVP100- 22	10.0A	+5.0V	3.2A	+15V
TPVP100- 23	10.0A	+5.0V	2.0A	+24V
TPVP100- 291	15.0A	+3.3V	4.0A	+12V
TPVP100- 292	15.0A	+3.3V	3.2A	+15V
TPVP100- 293	15.0A	+3.3V	2.0A	+24V

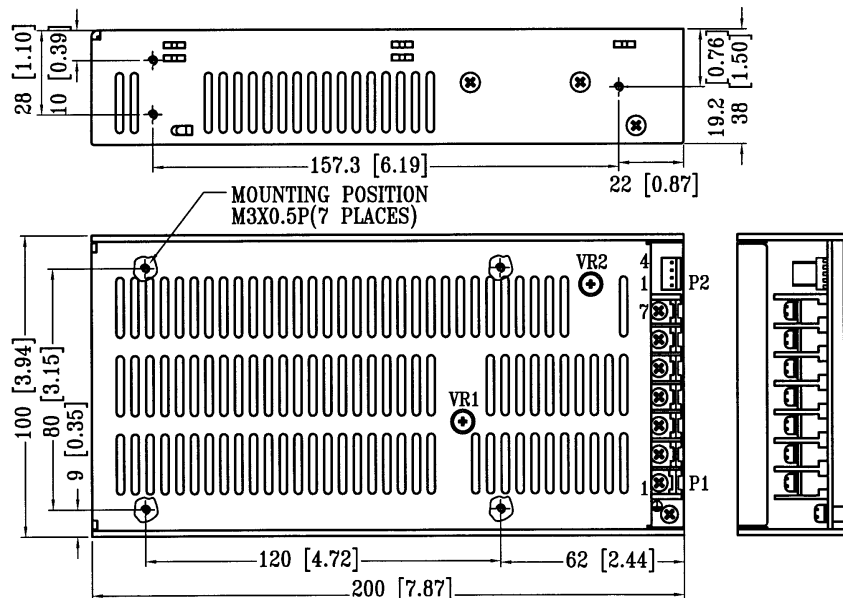
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★		AUX. VO2 †■		AUX. ±VO3 •	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
TPVP100- 30	12.0A	+5.0V	3.0A	+12V	0.8A	12V
TPVP100- 31	12.0A	+5.0V	3.0A	+12V	0.8A	5V
TPVP100- 32	12.0A	+5.0V	1.5A	+24V	0.8A	12V
TPVP100- 33	12.0A	+5.0V	3.0A	+15V	0.3A	15V
TPVP100- 392	12.0A	+3.3V	3.0A	+12V	0.8A	12V
TPVP100- 393	12.0A	+3.3V	3.0A	+15V	0.3A	15V
TPVP100- 394	12.0A	+3.3V	1.5A	+24V	0.8A	12V

Symbol: "★" OVP built-in. "@ " Adjustable. "±" Positive or Negative selectable (factory set). "# " Remote sensing.
 "■" Coupled choke. "•" Installed with Post Regulator (P.R.). "†" Stacked on main output.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: L-B 706.0g (24.9 Oz.)
 Box 795.0g (28.0 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		DUAL OUTPUT			TRIPLE OUTPUT				ASSORTED SIGNALS			
	AC-L	AC-N	AC-G	VO1	DC-COM	VO1	VO2	DC-COM	VO1	VO2	VO3	DC-COM	-SENSING	+SENSING	P.F	DC-COM
CNTR & PIN #	P1-1	P1-2	P1-3	P1-4,5	P1-6,7	P1-4	P1-6	P1-5	P1-4	P1-6	P1-7	P1-5	P2-4	P2-3	P2-2	P2-1

Mating connector: P1: Non, Screw on Top. P2: Molex 5051 or equivalent.