

TOTAL POWER INT'L

UNIVERSAL AC INPUT AC-DC SINGLE OUTPUT 50 WATTS

CHASSIS-MOUNT SWITCHING POWER SUPPLIES MODULES

TPAS50S SERIES



FEATURES:

- CHASSIS-MOUNT AC/DC MODULAR POWER SUPPLIES
- UNIVERSAL AC INPUT VOLTAGE FOR THE WORLD WIDE USE
- COMPACT IN SIZE
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB.22 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac. Nominal: 115/230Vac.

Input Frequency: 47-63 Hz.

Input Current: 0.77A @115Vac./0.39A @230Vac.

Inrush Current: Typ. 30.6A peak @ 230Vac.

Input Fuse: Use external fuse.

Dielectric Withstand: Meet IEC950.

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

Hold-up time: 19 mS @115Vac, 80mS @230Vac.

Earth Leakage: Less than 0.52mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart

Output Wattage: Typ. 50Watts.

Line Regulation: Typ. 0.2%.

Load Regulation: Typ. ±0.5%.

Noise & ripple: Typ. 1.0% peak to peak.

OVP: Built-in on main output.

Adjustability: Available at main output.

Overload Protection (OLP): Fully protected against output overload and short circuit.

Typ. 130-150% max. load.

Consult the factory for special OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 83%.

Switching Frequency: 63K Hz.

Circuit Topology: Fixed Frequency Flyback circuit.

Transient Response: Output voltage returns in less than 2mS following a 25% load change.

Case: Impact resistant thermo-plastic enclosure.

Safety Standard: EN60950/ UL1950 Class I or Class II.

Operating Temperature: 0 to +50°C. -10°C to +70°C by output derating.

Storage Temperature: -20°C to +71°C.

Temperature Coefficient: 0.04% /°C.

Cooling: Free air cooling.

Power Density: 4.1 Watts. / Cubic inch.

Weight: 378.0g (13.3 Oz).

Note: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load Regulation measured from Full-Load (F-L) to Half-Load (H-L) at nominal input and others loaded at half load.

OUTPUT VOLTAGE/ CURRENT RATINGS CHART

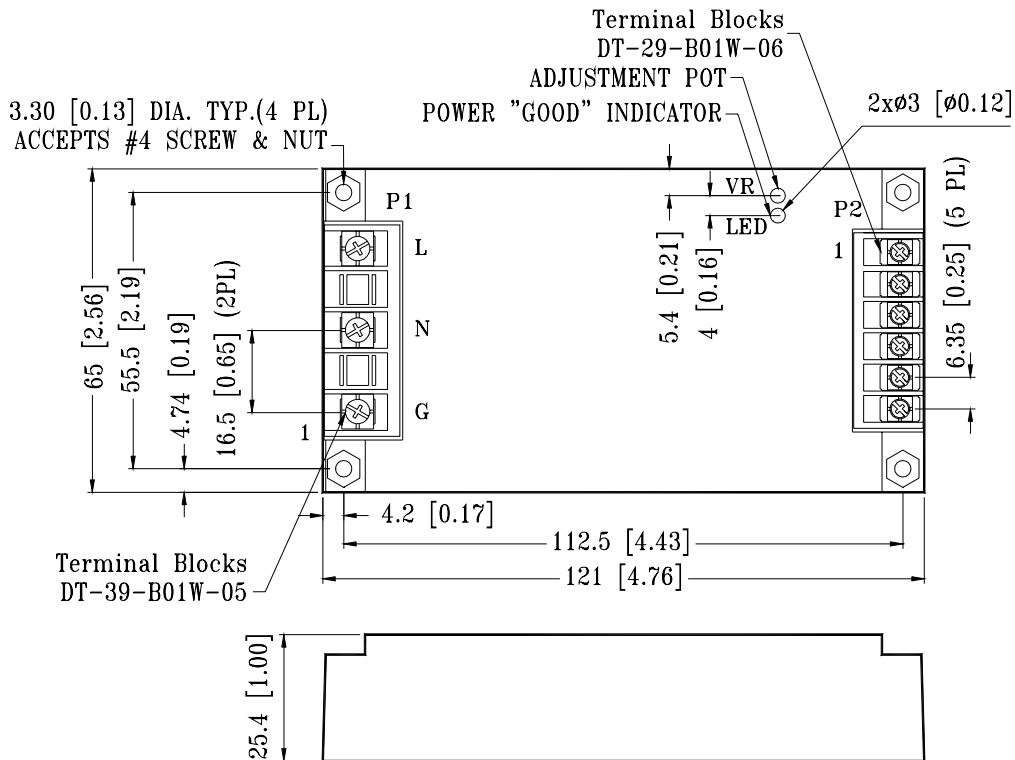
SINGLE OUTPUT

MODEL NO.	MAIN O/P VO1 @ ★	
	Typ.	Volt.
TPAS50-S033120	12.0A	+3.3V
TPAS50-S050090	9.0A	+5.0V
TPAS50-S120042	4.2A	+12.0V
TPAS50-S150035	3.5A	+15.0V
TPAS50-S240025	2.5A	+24.0V

Symbols: "★" OVP built-in. "@" Adjustable.

MECHANICAL DIMENSIONS: MM [INCHES]

Weight: 378.0g (13.3 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT			
	AC-Ground	AC-Neutral	AC-Line	+VO1	DC COM	On/Off CTL.	NC
CNTR & PIN#	P1-L	P1-N	P1-G	P2-3,4	P2-5,6	P2-1	P2-2