



FEATURES

- 2" x 4" x 1.2" Open Frame
- Low Leakage Current
- BF Rated Outputs
- Remote Sense & Optional PFD
- 0.5W No Load Power Consumption



MODELS LIST

Product No. ⁽¹⁾	Output Voltage	Maximum Output Power ⁽²⁾			
		@ Convection		@ 7.5 CFM	
		Current	Wattage	Current	Wattage
TMC150-S12	12V	8.35A	100W	12.5A	150W
TMC150-S15	15V	6.7A	100W	10A	150W
TMC150-S18	18V	5.56A	100W	8.34A	150W
TMC150-S24	24V	4.2A	100W	6.25A	150W
TMC150-S30	30V	3.34A	100W	5A	150W
TMC150-S36	36V	2.78A	100W	4.17A	150W
TMC150-S48	48V	2.1A	100W	3.13A	150W

Notes:
 1. Add suffix F to the P/N to order units with PFD, e.g. TMC150-S24F.
 2. 168W peak power with 10% duty cycle maximum for less than 15 seconds with the average output not to exceed the maximum power rating.

INPUT SPECIFICATIONS

Input Voltage Range 90-264 VAC
 Input Frequency 47-63 Hz
 Input Current 1.7A rms @ 115 VAC,
 0.85A rms @ 230 VAC
 Inrush Current 80A @ 115 VAC or 160A @ 230 VAC,
 at 25°C cold start
 Earth Leakage Current 105 µA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output Power Ratings See table
 Minimum Load Not required
 Tolerance ±2%
 Ripple and Noise* 1% Vp-p, 20 MHz bandwidth
 Remote Sense Compensates cable losses up
 to 0.5V
 Overvoltage Protection Set at 112-140% of its nominal
 output voltage
 Overcurrent Protection Protected to short-circuit
 conditions
 Temperature Coefficient ±0.04%/°C max.
 Transient Response Max. excursion of 4% or better on
 all models, recovering to 1% of
 final value within 500 µs after a
 25% step load change
 No Load Power Cons.<0.5W w/o PFD, <1W with PFD

* Measured with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor at rated line voltage and load ranges.

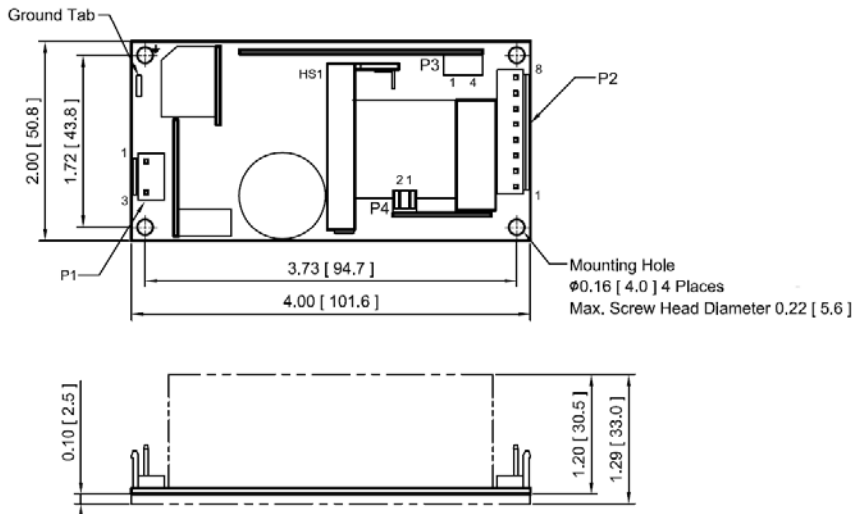
GENERAL SPECIFICATIONS

Switching Frequency 133 kHz typical
 Power Factor 0.98 typical, with active PFC
 Efficiency 87% typical @ 115 VAC,
 89% typical @ 230 VAC
 Hold-up Time 10 ms min. @ 120 VAC
 Operating Altitude 5,000 meters max.
 Line Regulation ±0.5% max. @ full load
 Operating Temperature 0°C to +70°C
 Derating Derate from 100% @ +50°C
 linearly to 50% @ +70°C,
 applicable to convection and
 forced-air cooling conditions
 Storage Temperature -40°C to +85°C
 Relative Humidity 5% to 95% non-condensing
 Withstand Voltage 4,000 VAC, input-output (2 MOPP)
 1,500 VAC, input-ground (1 MOPP)
 1,500 VAC, output-ground
 MTBF 250 kHrs minimum at full load,
 25°C ambient, calculated per
 MIL-HDBK-217F

STANDARDS & COMPLIANCES

EN55011, EN55022 Class B conducted, Class A radiated
 FCC Class B conducted, Class A radiated
 VCCI Class B conducted, Class A radiated
 EN61000-3-2 Harmonic distortion, Class A & D
 EN61000-3-3 Line flicker
 EN61000-4-2 ESD, ±8 KV air and ±6 KV contact
 EN61000-4-3 Radiated immunity, 3V/m
 EN61000-4-4 Fast transient/burst, ±2 KV
 EN61000-4-5 Surge, ±1 KV diff., ±2 KV com.
 EN61000-4-6 Conducted immunity, 3 Vrms
 EN61000-4-8 Magnetic field immunity, 3A/m
 EN61000-4-11 Voltage dips immunity,
 30% reduction for 500ms,
 60% reduction for 100ms,
 >95% reduction for 10ms
 Safety Standards IEC/EN 60601-1 (3rd Edition),
 ANSI/AAMI ES 60601-1:2005,
 CSA C22.2 No. 60601-1:08;
 UL/IEC/EN 60950-1 (2nd Edition),
 CSA C22.2 No. 60950-1 (2nd Edition)
 Agency Approvals UL, cUL, TUV, CB, CE
 Other Compliance RoHS

MECHANICAL SPECIFICATIONS



Notes:

1. Dimensions: inches [mm]
2. Tolerance: 0.02 [0.5] maximum
3. Connector P1: JST header P/N B3P-VH, mating with JST housing P/N VHR-3N or equivalent.
4. Connector P2: JST header P/N: B8P-VH, mating with JST housing P/N VHR-8N or equivalent.
5. Connector P3: JST header B4B-PH-K-S (LF) (SN), mating with JST housing PHR-4 or equivalent.
6. Connector P4: JST header B2B-PH-K-S (LF) (SN), mating with JST housing PHR-2 or equivalent.
7. Ground Tab: 0.25 [6.35] x 0.032 [0.8] faston connector.
8. Weight: 200 grams (0.44 lb.) approx.

INPUT & OUTPUT CONNECTORS

CONNECTOR	PIN	FUNCTION
P1	1	AC Neutral
	2	Void
	3	AC Live
P2	1	Common Return
	2	
	3	
	4	
	5	+Vout
	6	
	7	
	8	
P3	1	Common Return
	2	PFD (Optional)
	3	-V Sense
	4	+V Sense
P4	1	Fan Return (Isolated)
	2	+12V DC Fan 0.5A Max.