

TDMSP -2000 SERIES 2,000 WATT SINGLE OUTPUT MILITARY GRADE SWITCHING POWER SUPPLIES 13" x 8" x 3" POWER FACTOR CORRECTED

APPLICATIONS

The TDMSP-2000 series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 2000 watts. Rugged construction and superior quality make this power supply ideal for military and harsh environment applications. Available in standard, modified or fully custom configurations, for industrial, and Military applications on airborne shipboard and ground mobile platforms.



- Universal AC Input (100-264 VAC)
- Active PFC for EN61000-3-2 Class D Compliance
- Built In DC Fan for Cooling
- Current Share Function
- MS Connectors
- Remote On/ Off & Remote Sense Functions

AVAILABLE OPTIONS

- Hot Swap
- Parallel Operation
- ORing Diode for Redundant Operation
- Rack/ Panel Mount
- Ruggedized for Shock & Vibration for MIL-STD-810
- 400 Hz Operation
- Conformal Coated
- Additional Filtering for MIL-STD-461
- 5V/ 0.5A Aux Output
- 12V/ 0.5A Aux Output

SAFETY AND EMISSIONS

- Designed to meet UL/cUL60950-1
- Designed to meet TUV EN60950-1
- Designed to meet CBReport(IEC60950-1)
- Designed to meet CE Mark (LVD)
- Designed to meet EN55022 Class B (CISPR 22 B)



INPUT SPECIFICATIONS:

Input: Universal AC Input Range 100-264VAC or 127-370VDC (See Note)

Input Frequency: 47-63Hz (400 Hz Optional)

Inrush Current: 25A Max at 115VAC/50A at 230 VAC (Cold Start)

Input Current: 16A Max @ 115VAC 10A Max @ 230VAC

Efficiency: 83-90% Typical (Depending on Output Model)

Hold-up time: 16ms at full load (Minimum) Leakage Current: <2.0mA maximum @ 240 VAC

Harmonics: EN 61000-3-2, -3 Class D Compliant (0.99 PF Typical)

Note: 2000W @190-264 VAC 1500W @ 100-132 VAC

OUTPUT SPECIFICATIONS:

Minimum Load: None (Typical 10%)

Adjustment Range: ±10% (Minimum)

Regulation: Line & Load ±1%

Ripple/ Noise: 150mV Peak to Peak Maximum (20 MHz)

Output Voltage Adj: ±10% Minimum

Overcurrent Protection: 105-125% Automatic Recovery Constant Current Overvoltage Protection: 115-140% of V1 Nominal, Followed by Shutdown Overtemperature Protection: Heatsink Temp. 90°C \pm 5°C Auto Recovery

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature: -25°C to +50°C. Derate to 50% at +70°C Storage Temperature: -40°C to +85°C max 95% Relative Humidity

Cooling: Internal Ball Bearing DC Fan Humidity: 20-90% RH Non-Condensing

Vibration: 10-500Hz, 2G 10 Min/ 1 Cycle for 60 Min (3 Axes)

Shock: 20G Peak Acceleration — 11ms Half Sine per MIL-STD-810

Weight: Approx: 8.8 LBS

Size: 13" x 8" x 3"



MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TDMSP-2000-24	24V	80A
TDMSP-2000-28	28V	71A
TDMSP-2000-48	48V	42A

NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE.

CONSULT THE FACTORY. INPUT VOLTAGE RANGE DETERMINE OUTPUT POWER

NOTE: 2000W @ 190-264 VAC

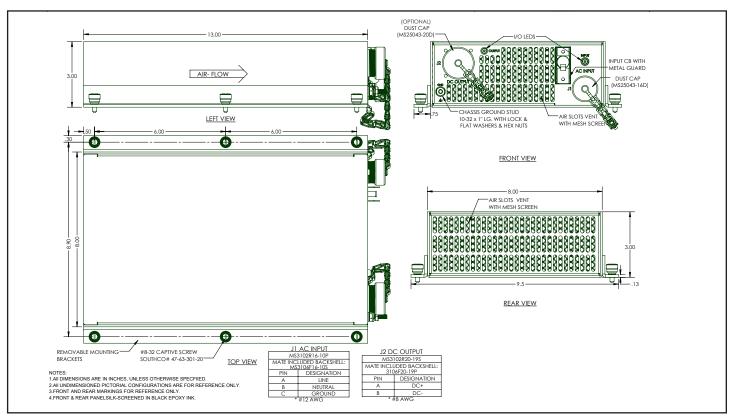
1500W @ 100-132 VAC

OPTION DESIGNATIONS

-HSP	Hot Swap
-ORD	Redundant Operation
-PAR	Parallel Operation
-cc	Conformal Coating

-MIL	Ruggedized/ Militarized
-PNL	Panel Mount
-RK	Rack Mount
-4Hz	400 Hz Operation

MECHANICAL OUTLINE



Technology Dynamics Inc. is not responsible for any errors in this data sheet nor any damages or injuries resulting from the use of this product.