

TDHV-3000 SERIES 3000-WATT SINGLE OUTPUT AC-DC CONVERTER 14" x 8" x 5" POWER FACTOR CORRECTED

APPLICATIONS

The TDHVP-3000 series of Power Factor Corrected AC-DC power supplies provides highly regulated output power to 3000-watts. Rugged construction and superior quality make this power supply ideal for harsh environment applications. Available in standard, modified, or fully custom configurations, for industrial, commercial, COTS ruggedized and Military applications.

STANDARD FEATURES

- Input and Output Good indicators
- Internal EMI Filtering
- Forced air cooling, Internal fan
- Compact size
- High Power Density
- Rugged Construction
- OV, OL, OT protection

AVAILABLE OPTIONS

- ORing Diode for Redundant Operation
- Ruggedized for shock & vibration
- Conformal Coated
- Compliance to MIL-STD-704

SAFETY AND EMISSIONS

- Designed to meet MIL-STD-461G
- Designed to meet UL/cUL62368-1
- Designed to meet TUV EN62368-1
- Designed to meet EN55035



TYPICAL IMAGE

INPUT SPECIFICATIONS:

Input: 115/200, 3Φ, 400Hz
Inrush Current: 50A max
Input Current: 11A per phase
Efficiency: 86% typical
Hold-up Time: 16ms at full load (minimum)
Leakage Current: <6.0mA maximum at 115V L-N
Harmonics: THD 5% max

OUTPUT SPECIFICATIONS:

Minimum Load: none
Regulation: Line: ±1%, Load: ±1%
Ripple / Noise: ±1%
Output Voltage Adj: ±1V
Overcurrent Protection: 105-125% automatic recovery Constant Current
Overvoltage Protection: 115-140% of V1 nominal
Overtemperature Protection: Heatsink Temp. 90°C ±5°C Auto Recovery

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature: -35°C to +70°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 10min/cycle for 60 min (3 axes)
Shock: 20G Peak Acceleration
Weight: Approx. 18 LBS
Size: 14" x 8" x 5"

MODEL SELECTION

MODEL NUMBER	VOLTAGE	CURRENT
TDHV-3000-270	270	12

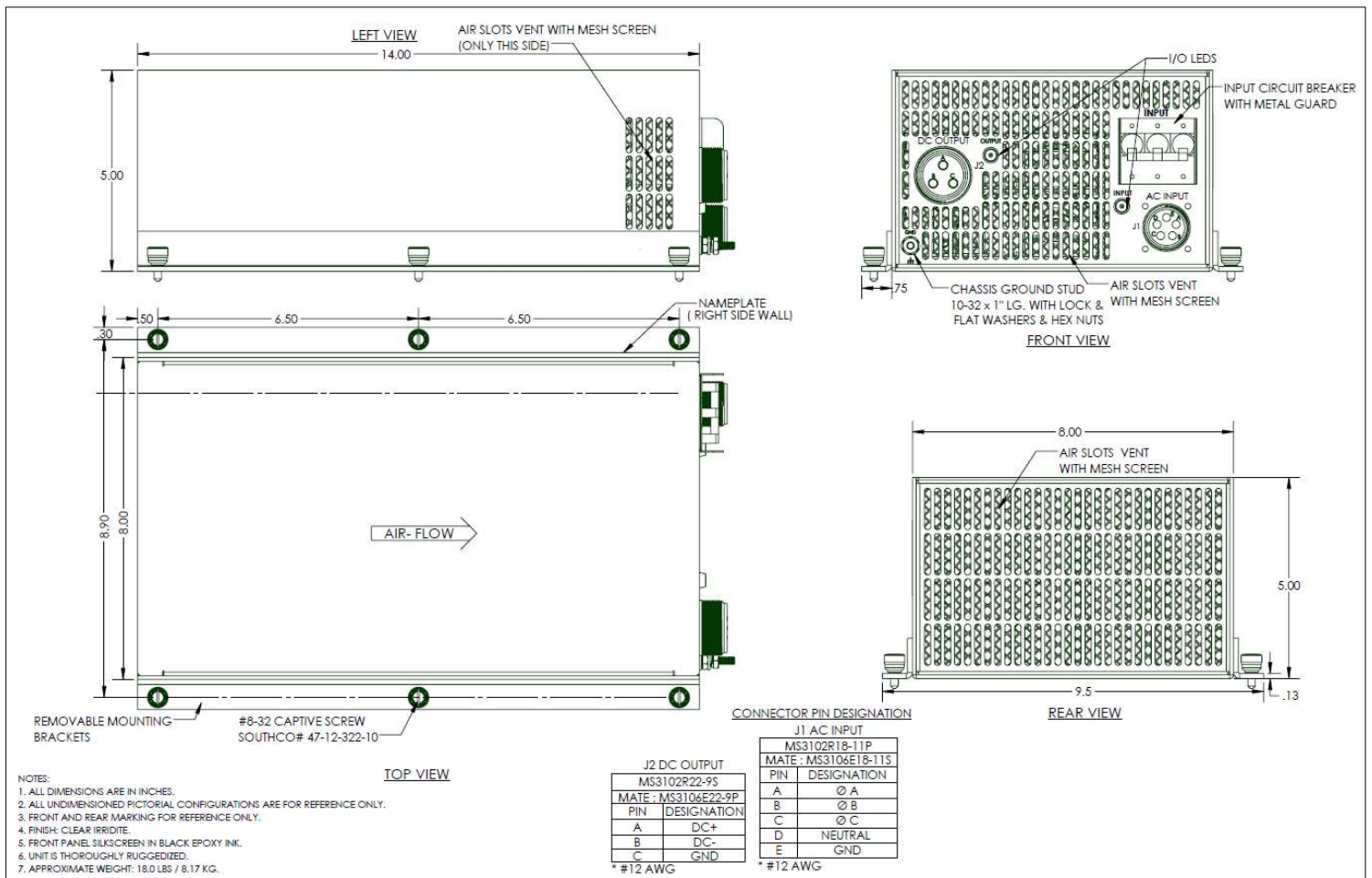
NOTE: OTHER VOLTAGES & CURRENTS AVAILABLE. CONSULT THE FACTORY.
INPUT VOLTAGE RANGE DETERMINE OUTPUT POWER.
CONTACT FACTORY FOR ADDITIONAL INFORMATION

OPTION DESIGNATIONS

-ORD	Redundant Operation
-CC	Conformal Coating

-MIL	Ruggedized/Militarized
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MECHANICAL OUTLINE



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