

TDHV-3000 SERIES

3000-WATT SINGLE OUTPUT

AC-DC CONVERTER

14" x 8" x 5"

POWER FACTOR CORRECTED



TYPICAL IMAGE

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

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: $\pm 1\%$, Load: $\pm 1\%$
 Ripple / Noise: $\pm 1\%$
 Output Voltage Adj: $\pm 1\%$
 Overcurrent Protection: 105-125% automatic recovery Constant Current
 Overvoltage Protection: 115-140% of V1 nominal
 Overtemperature Protection: Heatsink Temp. $90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Auto Recovery

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature: -35°C to $+70^{\circ}\text{C}$. Derate to 50% at $+70^{\circ}\text{C}$
 Storage Temperature: -40°C to $+85^{\circ}\text{C}$ 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

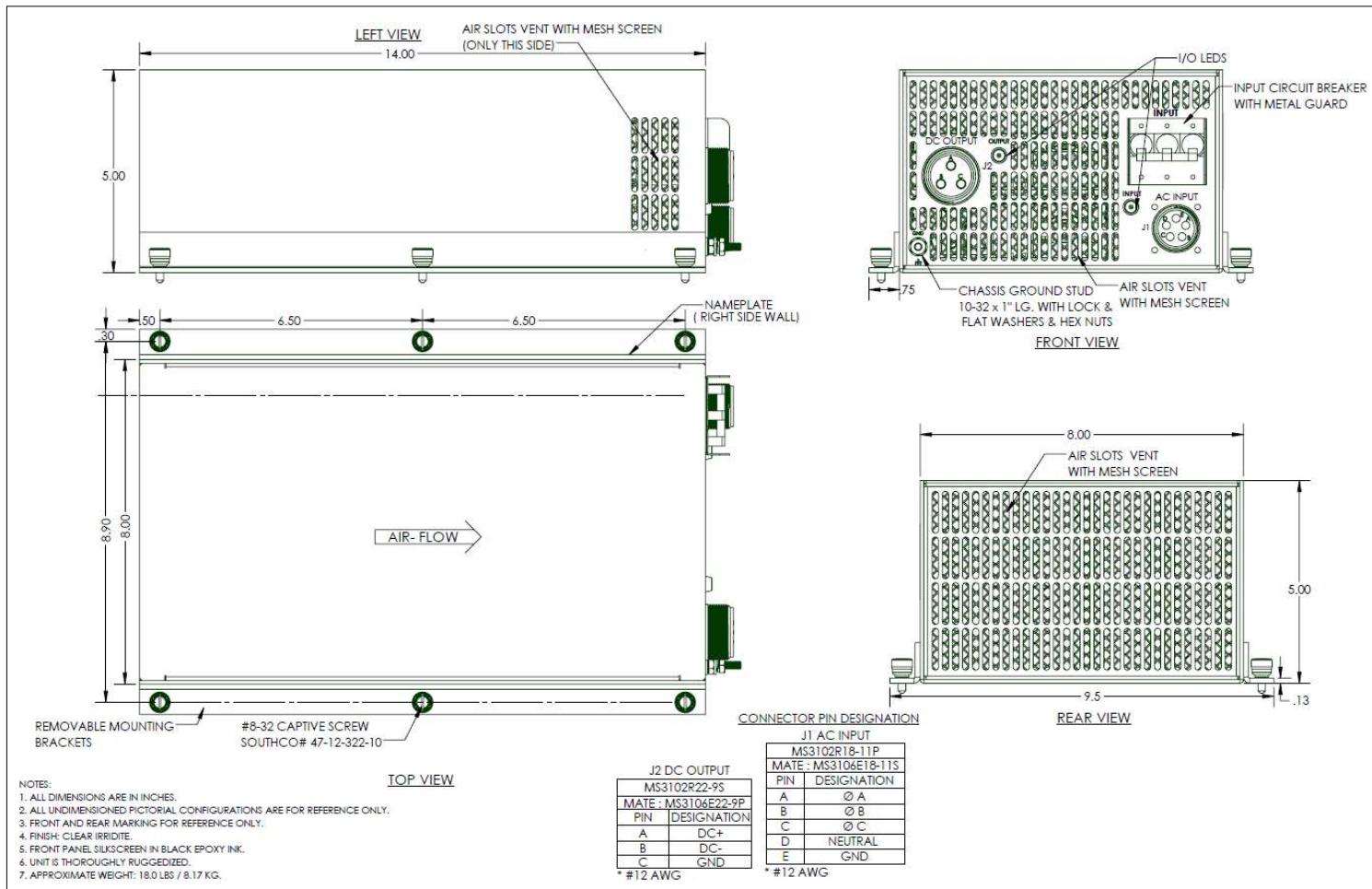
MODEL NUMBER	VOLTAGE	CURRENT
TDHV-3000-270	270	12

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

OPTION DESIGNATIONS

-ORD	Redundant Operation	-MIL	Ruggedized/Militarized
-CC	Conformal Coating		

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.