## MT SERIES

### 50, 100 AND 150 WATTS OUTPUT METAL CASE DC-TO-DC CONVERTERS

### **Key Superior Features**

- Five-sided Metal Case (For Reduced EMI)
- Over-Temperature Protection (Thermal shutdown)
- Over-Voltage Protection
- Total Isolation (Input, Output & Cover)
- Up to 90% efficiency
- 375 Khz fixed frequency
- Broad Input Voltage Options (24, 48, 150, 300V)
- "Power-good" Signal



#### **Additional Features**

- Compatible with Lucent FC/FW Series
- Remote sense
- Remote Shut Down (ON/OFF Function)
- Parallel operation with load sharing
- Over-current protection
- Low output ripple and noise
- 90°C Maximum Operating Temperature
- Excellent transient response
- MTBF > 1,000,000 hours (35°C, G<sub>B</sub>)
- Trimmable output (+10%, -10%)
- UL (USA, Canada), VDE approved

### Summary Typical Characteristics -

Set Point Accuracy	0.5%
Load/Line Regulation	0.05%
Output Drift with Temperature (p	er °C) 0.01%
Long Term Drift (per 1,000 hours	s) 0.2%
Switching Frequency	375 KHZ
Output Ripple - pp	1%
Output Voltage Trim Range	90 to 110%
Remote Sense Compensation	0.5V
Current Limit	130%
Short Circuit Current	145%
OVP Set Point	130%
Efficiency	80 to 90%
Input to Output Isolation	1,500 VDC
Input to Output Capacitance	1,700 pF
Weight	9.5 oz (270 gms)

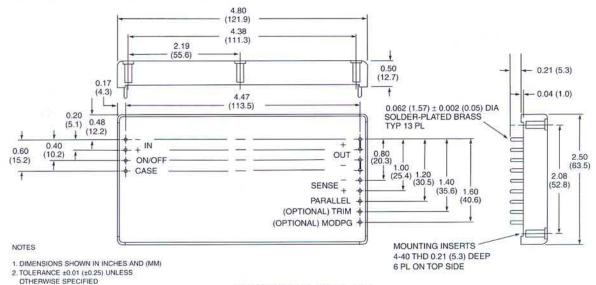


www.powercube.com

ISO 9001

ERCUBE <u>Tel: 1-800-866-3590 • Fax: 1-800-866-3589</u>

# MT SERIES



MECHANICAL OUTLINE

#### Ordering Information S Т P MT W G 0 Shutdown Trim Power-good Input Voltage **Output Voltage** Performance Grade **Output Wattage** P = "Power-good" 03 = 3.3 V\*N = Negative Logic T = Trim 050 = 50 Watts 024 = 24 V(18-36V) C = Commercial (36-72V)(-20°C to +90°C) P = Positive Logic 0 = No Trim signal 100 = 100 Watts 048 = 48 V05 = 5.0 V0 = No "Power-good" 150 = 150 Watts 150 = 150 V (100-200V) 12 = 12 VI = Industrial 300 = 300 V (200-400V) 15 = 15 V(-40°C to +90°C) signal 24 = 24 VM = Military 28 = 28 V(-55°C to +90°C)

#### Other Products

- Autoranging Universal Front-end Module 500/750 Watts & 1000/1500 Watts AC-to-DC Converters in a very small size (1.45"x2.28"x0.5"), models UFM500/UFM1K.
- **DC-to-DC Converters** available from Powercube in "full-brick" size (4.6"L X 2.4"W).
  - 50, 100, 150 and 200 Watts DC-to-DC Converters PD200 Series "full-brick" size (4.6"L X 2.4"W X 0.5"H) as a direct replacement for the industry's most popular devices.
  - 300 Watts, "full-brick" size, DC-to-DC Converters with four threaded holes for additional heatsink, as well as versatile mounting (TD300 Series).

- **DC-to-DC Converters** available from Powercube in "half-brick" size (2.28"L X 2.4"W).
  - Low Profile (0.4" height), High Density 150 Watts output DC-to-DC Converters (PD150 Series).
  - 25, 50, 75 and 100 Watts DC-to-DC Converters as direct replacement for the industry's most popular devices (LPD150 Series).
  - 25, 50, 75, 100 and 150 Watts DC-to-DC Converters with four threaded holes for additional heatsink, as well as versatile mounting (TD Series).
  - 300 Watts High Density, "full-brick" size (4.6"L X 2.4"W X 0.5"H) PD301 Series.



www.powercube.com

ISO 9001

VERCUBE TEL: 1-800-866-3590 • FAX: 1-800-866-3589

9340 OWENSMOUTH AVENUE • CHATSWORTH • CALIFORNIA 91311

<sup>\*</sup> Outputs less than 5V are limited to 30A for 150W; 20A for 100W, and; 10A for 50W outputs.