

TD300 SERIES

Key Features

- 300 watts output
- 70 watts per cubic inch
- Up to 90% efficiency
- Over-Temperature Protection (Thermal Shutdown)
- Over-Voltage Protection
- Total Isolation (Input, Output & Base Plate)
- Parallelable - up to 20 units (Without any External Components)
- Broad Input Voltage Options (24, 48, 150, 300V)
- UL (USA, Canada), VDE approved



“Full-Brick” Size 300 Watts DC - to - DC Converters

Additional Features

- Compatible with Lucent 300 Watts FW, and 250 Watts FC Series
- “Power-good” Signal
- Current monitor
- Remote sense
- 375 KHZ fixed frequency
- Over-current protection
- Parallel operation with load sharing
- Frequency Synchronization (350 - 400 KHz)
- Metal base plate
- Case ground pin
- Low output ripple and noise
- 100°C Maximum Operating Temperature
- Excellent transient response
- MTBF > 1,000,000 hours (35°C, G_B)
- Trimmable output (+10%, -35%)

Summary Typical Characteristics

Set Point Accuracy	0.5%
Load/Line Regulation	0.05%
Output Drift with Temperature	0.01%
Long Term Drift (per 1,000 hours)	0.2%
Switching Frequency	375 KHZ
Output Ripple - pp	1%
Output Voltage Trim Range	65 to 110%
Remote Sense Compensation	0.5V
Current Limit	130%
Short Circuit Current	130%
OVP Set Point	130%
Efficiency	80 to 90%
Input to Output Isolation	
24V & 48V Input	1,500 V _{RMS}
150V & 300V Input	3,000 V _{RMS}
Input or Output to Baseplate	2,500 V _{RMS}
Weight	7.0 oz (200 gms)



POWERCUBE
A NATEL COMPANY

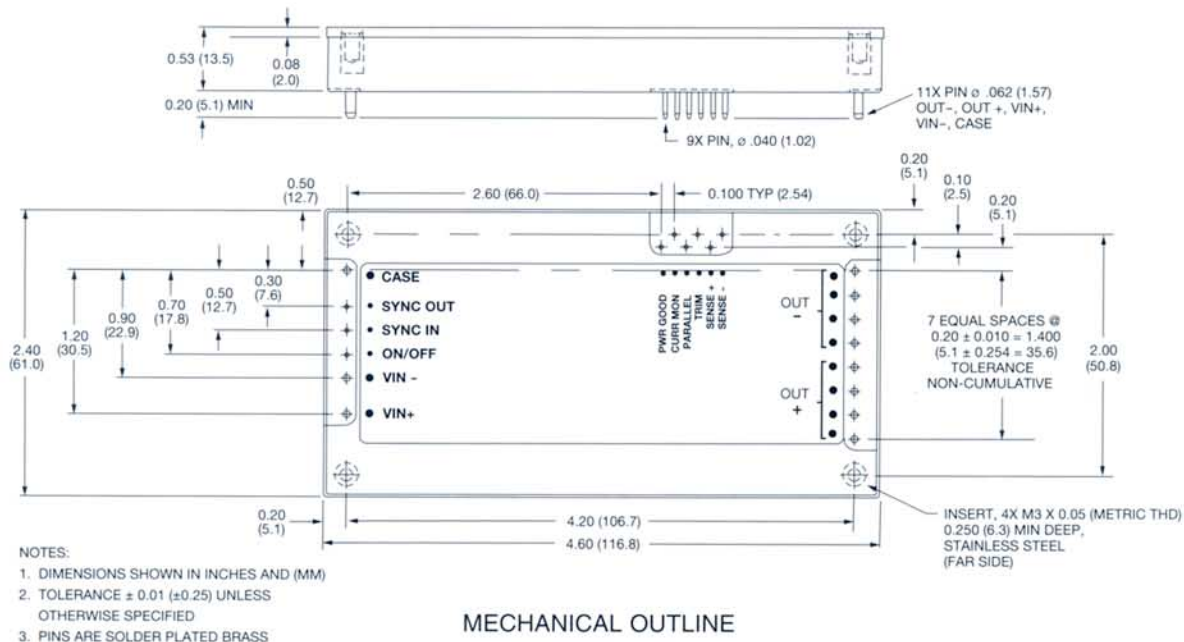
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ISO 9001

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TD300 SERIES



Ordering Information

TD300	I	O	G	S
Input Voltage				
024 = 24 V (18-36V)*				
048 = 48 V (36-72V)				
150 = 150 V (100-200V)				
300 = 300 V (200-400V)				
Output Voltage				
03 = 3.3 V**				
05 = 5.0 V				
12 = 12 V				
15 = 15 V				
24 = 24 V				
28 = 28 V				
Performance Grade				
C = Commercial (-20°C to +100°C)				
I = Industrial (-40°C to +100°C)				
M = Military (-55°C to +100°C)				
Shutdown				
N = Negative Logic				
P = Positive Logic				

*For 24V Input Models, the 5V and less outputs are limited to 50A. **Outputs less than 5V are limited to 60A.

Other Products

DC-to-DC Converters available from Powercube

- "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).
- "Full-Brick" size (4.6"L X 2.4"W X 0.5"H)
- 300 Watts output, High Density, DC-to-DC Converters (PD301 Series).

- 50 to 200 Watts, DC-to-DC Converters (MT Series), packaged in a metal housing with six threaded holes for additional heatsink as well as versatile mounting.

■ 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.

■ Coming Soon

- 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.
- High Power (600 Watts) Power Factor Corrected AC-to-DC Converter.



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