

TD SERIES

30, 50, 75, 100 AND 150 WATTS OUTPUT DC-TO-DC CONVERTERS

Key Superior Features

- **Over-Temperature Protection**
(Thermal shutdown)
- **Over-Voltage Protection**
- **Total Isolation**
(Input, Output & Base Plate)
- **Up to 90% efficiency**
- **375 KHz fixed frequency**
- **Broad Input Voltage Options**
(24, 48, 150, 300V)



Application Notes (Power  Pages) available

PP40 The ABC's of DC-to-DC Converters and Power Supplies
Definitions of Power Conversion Terms (12 pages)

PP41 Information for Standard Usage
Input/Output connections (8 pages)

PP42 Output Voltage Trimming (4 pages)

PP43 Basic Operations and Features (4 pages)

PP44 Connecting Multiple Converters (12 pages)

PP45 Thermal Management (8 pages)

Additional Features

- Industry standard pinout
- Metal baseplate
- Remote sense
- Remote Shut Down (ON/OFF Function)
- Over-current protection
- 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%)
- UL (USA, Canada), VDE approved

Summary Typical Characteristics

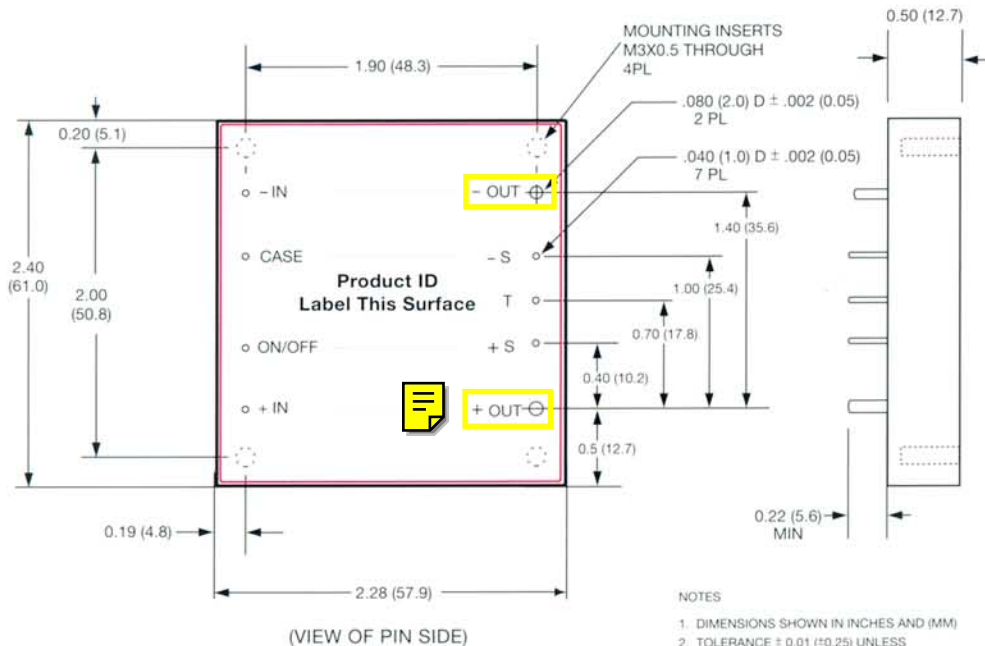
Set Point Accuracy	0.5%
Load/Line Regulation	0.05%
Output Drift with Temperature (per °C)	0.01%
Long Term Drift (per 1,000 hours)	0.2%
Switching Frequency	375 KHZ
Output Ripple - pp	1%
Output Voltage Trim Range	65 to 110%
Remote Sense Compensation	0.5V
Current Limit	130%
Short Circuit Current	145%
OVP Set Point	130%
Efficiency	80 to 90%
Input to Output Isolation	1,500 VDC
Input to Output Capacitance	400 pF
Weight	3.5 oz (100 gms)



POWERCUBE
A NATEL COMPANY

TEL: 1-800-866-3590 • FAX: 1-800-866-3589
9340 OWENSMOUTH AVENUE • CHATSWORTH • CALIFORNIA 91311

TD SERIES



Ordering Information

TD W	I	O	G
Output Wattage	Input Voltage	Output Voltage	Performance Grade
030 = 30 Watts	024 = 24 V	03 = 3.3 V	C = Commercial (-20°C to +100°C)
050 = 50 Watts	048 = 48 V	05 = 5.0 V	I = Industrial (-40°C to +100°C)
075 = 75 Watts	150 = 150 V	12 = 12 V	M = Military (-55°C to +100°C)
100 = 100 Watts	300 = 300 V	15 = 15 V	
150 = 150 Watts		24 = 24 V	
		28 = 28 V	

Outputs less than 5V are limited to 30A for 150W; 20A for 100W; 15A for 75W; 10A for 50W and 6A for 30W outputs.

Other Products

Coming Soon

- 50 to 200 Watts DC-to-DC Converters "full-brick" size (4.6"L X 2.4"W X 0.5"H).
- 300 Watts High Density, Low Profile (4.6"L X 2.4"W X 0.4"H) DC-to-DC Converters.
- High Power (600 Watts) Power Factor Corrected AC-to-DC Converter and "half-brick" size 500 Watts Universal Front-end Module AC-to-DC Converter.

Other 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 directed replacements for the industry's most popular devices (LPD150 Series).



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