

# PD150 SERIES

## 150 WATTS OUTPUT DC-TO-DC CONVERTERS

### Key Superior Features

- Low Profile- **0.40 inch high**  
(2.28"L x 2.40"W x 0.40"H)
- Up to **150 watts** output
- Up to **90 watts per cubic inch**
- Up to **90% efficiency**
- **Over-Temperature Protection**  
(Thermal Shutdown)
- **Over-Voltage Protection**
- **Total Isolation**  
(Input, Output & Base Plate)

### Additional Features

- Compatible with Vicor VI-J00 family
- 375 KHz fixed frequency
- Parallelable
- Frequency synchronization
- Remote sense
- Current limit
- Low output ripple and noise
- 100°C Maximum Operating Temperature
- Excellent transient response
- MTBF > 1,000,000 hours (35°C, G<sub>B</sub>)
- Trimmable output (+10%, -35%)
- UL (USA, Canada), VDE approved



### Summary Typical Characteristics

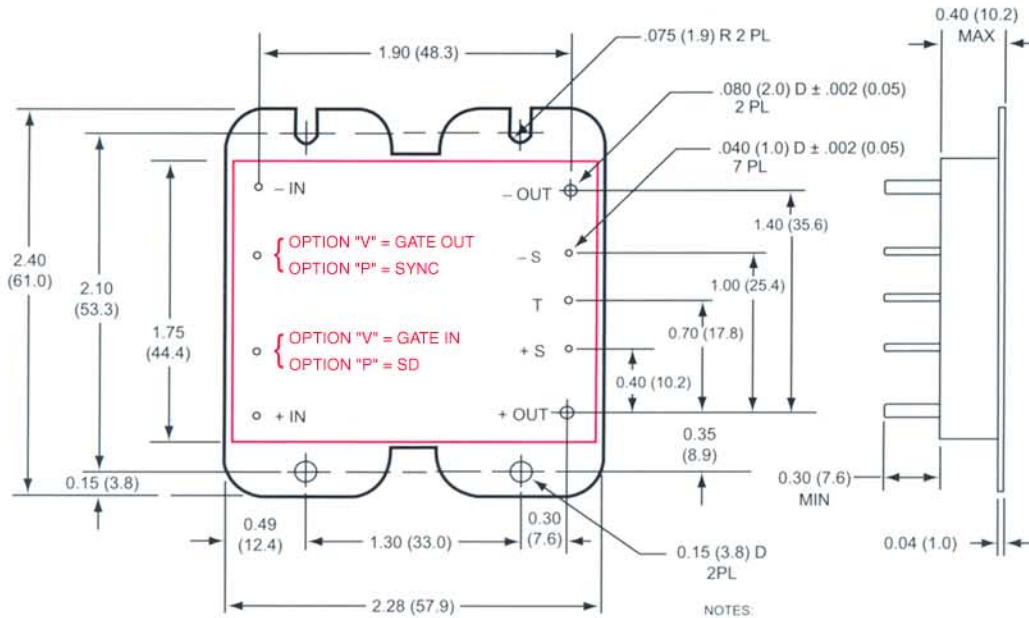
Set Point Accuracy	0.5%
Load/Line Regulation	0.05%
Output Drift with Temperature	0.01%
Long Term Drift (per 1,000 hours)	0.2%
Switching Frequency	375 KHz
Output Ripple - pp	1%
Output Voltage Trim Range	65 to 110%
Remote Sense Compensation	0.5V
Current Limit	130%
Short Circuit Current	145%
OVP Set Point	130%
Efficiency	80 to 90%
Input to Output Isolation	3,000 V <sub>RMS</sub>
Input or Output to Baseplate	2,500 V <sub>RMS</sub>
Weight	2.5 oz. (71.0 gms)



www.powercube.com **ISO 9001**  
**TEL: 1-800-866-3590 • FAX: 1-800-866-3589**

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From Outside the U.S.A. Tel: 818-734-6500 • Fax: 818-734-6540

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## Ordering Information

<b>PD150</b>	<b>I</b>	<b>O</b>	<b>F</b>	<b>G</b>	<b>W</b>
<b>Input Voltage</b>	<b>Output Voltage</b>	<b>Footprint / Pin Out</b>	<b>Performance Grade</b>	<b>Output Wattage</b>	
012 = 12V* (11-20V)	03 = 3.3 V**	P = Powercube enhanced	C = Commercial (-20°C to +100°C)	025 = 25 Watts	
024 = 24V (18-36V)	05 = 5.0 V	V = Vicor compatible	I = Industrial (-40°C to +100°C)	050 = 50 Watts	
048 = 48V (36-76V)	12 = 12 V		M = Military (-55°C to +100°C)	075 = 75 Watts	
072 = 72V (55-100V)	15 = 15 V			100 = 100 Watts	
150 = 150V (100-200V)	24 = 24 V			150 = 150 Watts	
300 = 300V (200-400V)	28 = 28 V				
	48 = 48 V				

\* Input of 12V is limited to 100 Watts for all output voltages. \*\* Outputs less than 5V are limited to 30A.

## Other Products

### DC-to-DC Converters available from Powercube

- "Half-brick" size (2.28"L X 2.4"W)
- 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.
- 300 Watts, "full-brick" size, DC-to-DC Converters with four threaded holes for additional heatsink, as well as versatile mounting (TD300 Series).

■ 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.



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