LPD150 SERIES

25, 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**

Additional Features

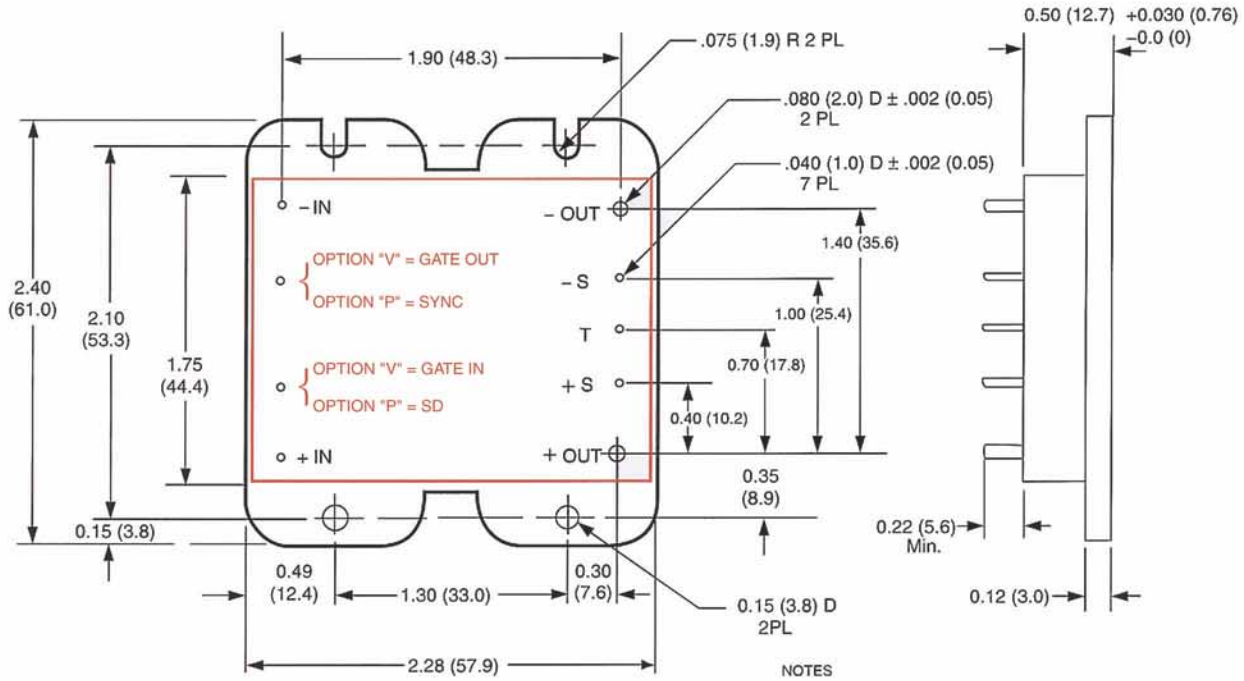
- Compatible with Vicor VJ-00 family
- Industry standard footprint
- Remote sense
- Over-current protection
- Low output ripple and noise
- 100°C Maximum Operating Temperature
- Excellent transient response
- MTBF > 1,000,000 hours (35°C, G_B)
- Trimmable output (+10%, –35%)
- UL (USA, Canada), VDE approved

Summary Typical Characteristics

Set Point Accuracy	0.5%
Load/Line Regulation	0.05%
Output Drift with Temperature	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_{RMS}
Input or Output to Baseplate	2,500 V_{RMS}
Weight	3.0 oz (85 gms)

POWERCUBE
A NATEL COMPANY
www.powercube.com
ISO 9001
TEL: 1-800-866-3590 • FAX: 1-800-866-3589
9340 OWENSMOUTH AVENUE • CHATSWORTH • CALIFORNIA 91311

LPD150 SERIES



(VIEW OF PIN SIDE)

NOTES

1. DIMENSIONS SHOWN IN INCHES AND (MM)
2. TOLERANCE ± 0.01 (±0.25) UNLESS OTHERWISE SPECIFIED.

MECHANICAL OUTLINE

Ordering Information

LPD150 — I — O — F — G — W

Input Voltage
012 = 12V* (11-20V)
024 = 24V (18-36V)
048 = 48V (36-76V)
072 = 72V (55-100V)
150 = 150V (100-200V)
300 = 300V (200-400V)

Output Voltage
03 = 3.3 V**
05 = 5.0 V
12 = 12 V
15 = 15 V
24 = 24 V
28 = 28 V
48 = 48 V

Footprint / Pin Out
P = Powercube enhanced
V = Vicor compatible

Performance Grade
C = Commercial (-20°C to + 100°C)
I = Industrial (-40°C to +100°C)
M = Military (-55°C to +100°C)

Output Wattage
025 = 25 Watts
050 = 50 Watts
075 = 75 Watts
100 = 100 Watts
150 = 150 Watts

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

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