

**TLD Series – 20/25A, 3/4-Brick, DC/DC Converter**  
**48V Input**  
**Dual Output**

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**Features**

- 85/100 Watt total output power
- Flexible load distribution
- High efficiency
- Output voltage tracking
- Output overcurrent protection
- Output overvoltage protection
- Overtemperature protection
- Remote sense on both outputs
- Set point accuracy  $\pm 1.5\%$
- Independent output voltage trim, positive or negative
- Input/output isolation: 1500VDC, basic insulation
- UL 1950 recognition, CSA 22.2 No. 950-95 certification, TUV IEC950

**Applications**

- Distributed power architectures
- Telecommunications equipment
- LAN/WAN applications
- Data processing applications

**Description**

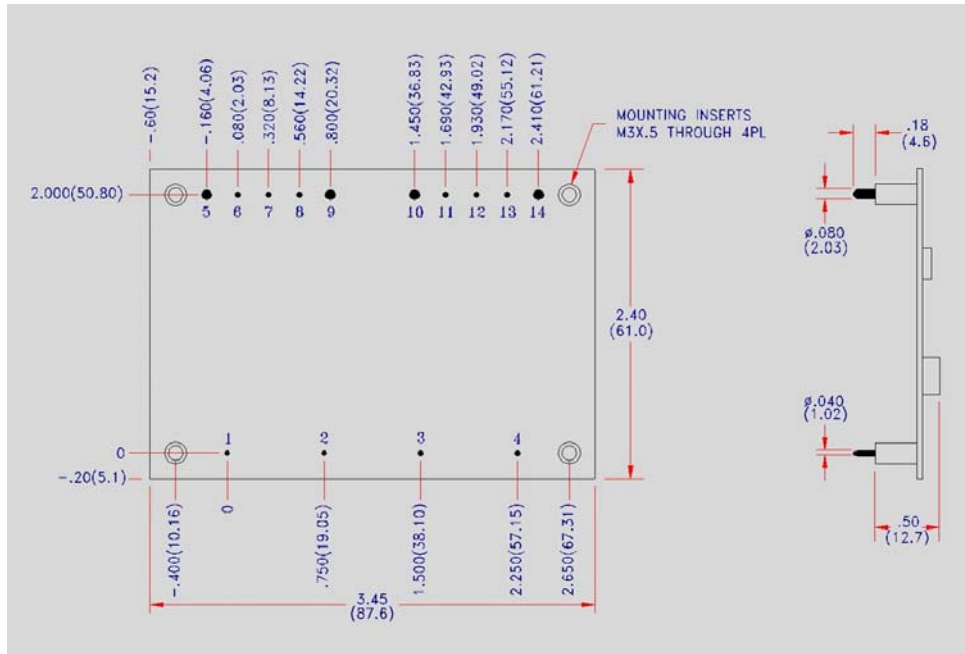
The TLD is a series of high-density, 3/4-brick DC/DC converters that provide standard telecom and datacom input voltage conversion to two independently regulated output voltages. The TLD's leading-edge technology provides high efficiency. Its thermal design enables delivery of full-rated power at 50°C ambient temperature with 200 LFM forced air without addition of a heatsink. The outputs also track each other during both startup and shutdown.

**Selection Chart**

Model	Input voltage VDC	Input current, max, ADC	Output voltages VDC	Output currents ADC	Output ripple/noise (mV p-p)	Typical efficiency %
TLD20ZGE	36-72	3.6	5.0/3.3	20/20	100	87
TLD25ZED	36-72	3.1	3.3/2.5	25/20	100	86
TLD25ZEB	36-72	3.1	3.3/1.8	25/20	100	85

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**Mechanical Drawing**



Pin #	Function
1	-Vin
2	On/Off
3	No Pin
4	+Vin
5	+Vout 1
6	+Sense 1
7	Trim 1
8	-Sense 1
9	-Vout 1
10	-Vout 2
11	-Sense 2
12	Trim 2
13	+Sense 2
14	+Vout 2

Bottom (Pin) View

Side View

Tolerances: .xx ± 0.020 (0.5)  
 .xxx ± 0.010 (0.25)  
 Pin diameter ± 0.002 (0.05)

**Ordering Information**

Options	Suffixes to add to part number
Remote On/Off	Positive- Standard, no suffix required
	Negative- Add "N" suffix
Pin Length	0.18"- Standard, no suffix required
	0.11"- Add "8" suffix
	0.15"- Add "9" suffix

**Notes**

1. Consult factory for the complete list of available options.
2. Power-One products are not authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the President of Power-One, Inc.
3. Specifications are subject to change without notice.