

# DELPHI SERIES



## FEATURES

- High efficiency: 86%@  $\pm 12V/1.25A$
- Size: 49.6mm x 39.4mm x 9.5mm (1.95"x1.55"x0.37")
- Industry standard pin out
- Fixed frequency operation
- Input UVLO, Output OCP, OVP, OTP
- 2250V isolation
- Basic insulation
- No minimum load required
- Adjustable output voltage
- ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- UL/cUL 60950-1 (US & Canada), and TUV (EN60950-1) - pending

## Delphi Series L48DB, 30W 2"x1.6" Dual Output DC/DC Power Modules: 48V in, $\pm 12.0V$ , 1.25A Output

The Delphi Series L48DB, 2"x1.6", 48V input, positive and negative bipolar dual output, and isolated DC/DC converters are the latest offering from a world leader in power system and technology and manufacturing — Delta Electronics, Inc. This product family provides positive and negative bipolar output (output voltage is 12V) and up to 30 watts of power in an industry standard quarter brick package size. Both output channels can be used independently. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance, as well as extremely high reliability under highly stressful operating conditions. All models are fully protected from abnormal input/output voltage, current, and temperature conditions. The Delphi Series converters meet all safety requirements with basic insulation.

## OPTIONS

- Negative On/Off logic
- Short pin lengths available

## APPLICATIONS

- Telecom / DataCom
- Wireless networks
- Optical network equipment
- Server and data storage
- Industrial / Test Equipment

## SPECIFICATIONS

| GENERAL SPECIFICATIONS |                     |                     | OUTPUT SPECIFICATIONS   |                        |            |
|------------------------|---------------------|---------------------|-------------------------|------------------------|------------|
| Input Voltage          |                     | 36~75V              | Voltage Accuracy        | Typical                | ±1.5%      |
| Switching Frequency    | Typical             | 330KHz              | Line Regulation         | Typical (balance load) | ±0.2%      |
| Isolation Voltage      | In/Out              | 2250V               | Load & Cross Regulation | Typical (balance load) | ±1%        |
| Isolation Capacitance  | Typical             | 1500 pF             | Ripple & Noise          | Typical                | 40 mV      |
| Isolation Resistance   | Minimum             | 10M Ohms            | Current Limits          | Typical                | 150%       |
| MTBF                   | Bellcore            | TBD                 | Over Voltage            | Typical                | 133%       |
| Size                   | (1.95"x1.55"x0.37") | 49.6 x 39.4 x 9.5mm | Voltage Trim            |                        | +10%, -10% |

## PART NUMBERING SYSTEM

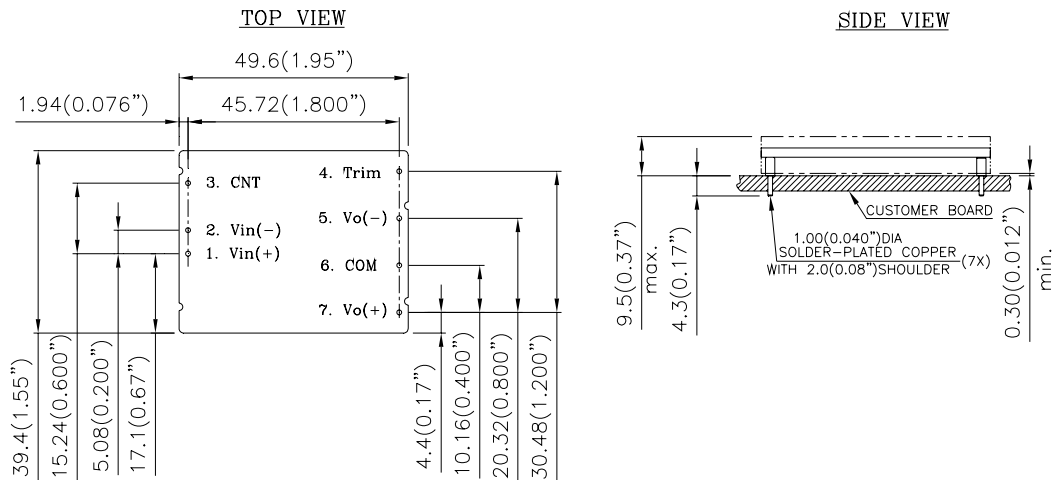
| L               | 48            | D                 | B                  | 120            | 01             | P                            | S                        |   | A                      |
|-----------------|---------------|-------------------|--------------------|----------------|----------------|------------------------------|--------------------------|---|------------------------|
| Type of Product | Input Voltage | Number of Outputs | Product Series     | Output Voltage | Output Current | ON/OFF Logic                 | Pin Length               |   | Option Code            |
| L - 2"x1.6"     | 48 - 36~75V   | D - Dual Output   | B - Bipolar Output | 120 - 12V      | 01 - 1.25A     | N - Negative<br>P - Positive | S - 0.190"<br>R - 0.170" | F - RoHS 6/6<br>(Lead Free)<br>Space - RoHS 5/6 | A - Standard Functions |

## MODEL LIST

| MODEL NAME     | INPUT   |      | OUTPUT  |       | Efficiency @ Full Load |
|----------------|---------|------|---------|-------|------------------------|
| L48DB12001PS A | 36V~75V | 1.2A | ± 12.0V | 1.25A | 86%                    |

## MECHANICAL DRAWING

### Open Frame Version



#### NOTES:

DIMENSIONS ARE IN MILLIMETERS AND (INCHES)  
 TOLERANCES: X.Xmm±0.5mm(X.XX in.±0.02 in.)  
 X.XXmm±0.25mm(X.XXX in.±0.010 in.)

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## WARRANTY

Delta offers a two (2) year limited warranty. Complete warranty information is listed on our web site or is available upon request from Delta.

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