

# 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

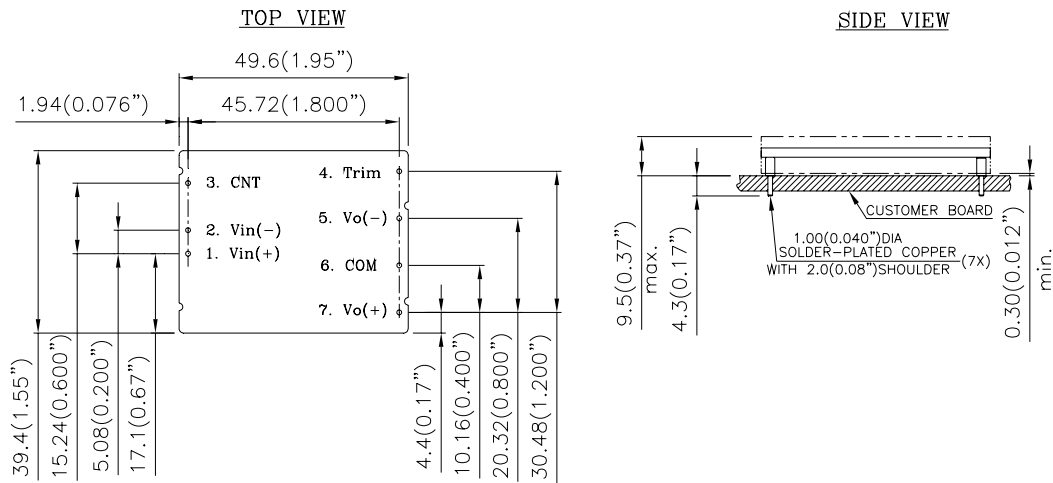
L	48	D	B	120	01	P	S		A
Type of Product	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length		Option Code
L - 2"x1.6"	48 - 36~75V	D - Dual Output	B - Bipolar Output	120 - 12V	01 - 1.25A	N - Negative P - Positive	S - 0.190" R - 0.170"	F - RoHS 6/6 (Lead Free)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