

DELPHI SERIES



FEATURES

- ◆ High efficiency: 89% @ 5V/ 10A
- ◆ Size: 49.6mm x 39.4mm x 8.9mm (1.95"x1.55"x0.35")
- ◆ Industry standard pin out
- ◆ Fixed frequency operation
- ◆ Input UVLO, OTP, Output OCP, OVP (auto-restart)
- ◆ Monotonic startup into normal and pre-biased loads
- ◆ 2250V isolation and basic insulation
- ◆ No minimum load required
- ◆ 4:1 input voltage range
- ◆ ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- ◆ UL/cUL 60950 (US & Canada) Recognized, and TUV (EN60950) certified
- ◆ CE mark meets 73/23/EEC and 93/68/EEC directives

Delphi Series L36SA, 2"x1.6", 50W Family DC/DC Power Modules: 18~75Vin, 3.3V, 5V, 12Vout

The Delphi Series L36SA, 2"x1.6", 18V~75V input, single output, isolated DC/DC converter is the latest offering from a world leader in power systems technology and manufacturing - Delta Electronics, Inc. The L36SA series provides up to 50 watts of power or 15A of output current (3.3V) in an industry standard 2x1.6 form factor and pinout. The Delphi L36SA series operates from a wide 18V to 75V (4:1) input voltages. 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. An optional heat spreader is available for extended operation.

OPTIONS

- ◆ Positive On/Off logic
- ◆ Sense
- ◆ Heat spreader

APPLICATIONS

- ◆ Telecom/DataCom
- ◆ Wireless Networks
- ◆ Optical Network Equipment
- ◆ Server and Data Storage
- ◆ Industrial/Test Equipment

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage		18~75V	Voltage Accuracy	Typical	±1%
Switching Frequency	Typical (5V)	300KHz	Line Regulation	Typical	±0.1%
Isolation Voltage	In/Out	2250V	Load Regulation	Typical	±0.1%
Isolation Capacitance	Typical	1500PF	Ripple & Noise	Typical	50 mV
Isolation Resistance	Minimum	100MΩ	Current Limits	Typical	130%
MTBF	Bellcore (3.3V)	3.72M hrs	Over Voltage	Typical	120%
OTP	Typical	115°C	Voltage Trim		+10%, -10%
Size	(1.95"x1.55"x0.35")	49.6x39.4x8.9mm			

PART NUMBERING SYSTEM

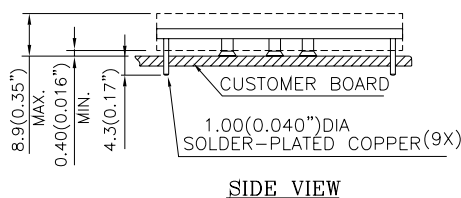
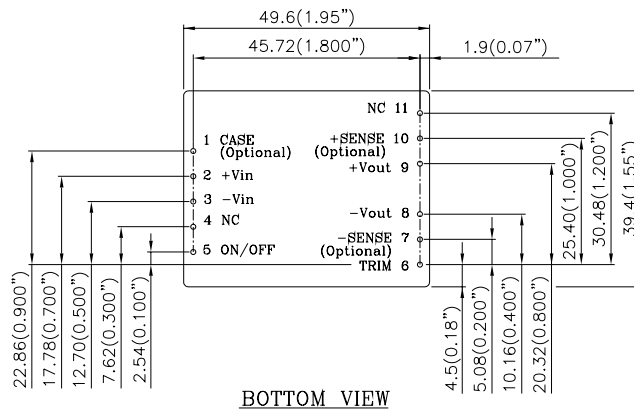
L	36	S	A	050	10	N	R	F	A
Type of Product	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length		Option Code
L - 2 x 1.6 Brick	18~75V	S - Single	A - 50W platform	3R3- 3.3V 050- 5.0V 120- 12V	04- 4A 10- 10A 15- 15A	N- Negative P- Positive	R- 0.170"	F- RoHS 6/6 (Lead Free)	A- Standard Functions B- With sense

MODEL LIST

MODEL NAME	INPUT		OUTPUT		EFF @ 100% LOAD
L36SA3R315NRFA	18V~75V	2.1A	3.3V	15A	88%
L36SA05010NRFA	18V~75V	1.9A	5.0V	10A	89%
L36SA12004NRFA	18V~75V	1.9A	12V	4A	87.5%

MECHANICAL DRAWINGS

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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