

DELPHI SERIES



Features

- High efficiency: 89% @ 3.3V/ 60A
- Size: 2.28"x2.40"x 0.50"
- Standard footprint
- Industry standard pin out
- Fixed frequency operation
- Metal baseplate
- Input UVLO, Output OCP, OVP, OTP
- Basic insulation
- No minimum load required
- 2:1 input voltage range
- Operating case temperature: -40°C to +100°C
- ISO 9000, TL 9000, ISO 14001 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 H48SL, 200W Half Brick Family DC/DC Power Modules: 48V in, 60A out

The Delphi Series H48SL Half Brick, 48V input, single output, isolated DC/DC converters are the latest offering from one of the world's largest power supply manufacturers -- Delta Electronics, Inc. This product family provides up to 200 watts of power or 60A of output current in an industry standard footprint. 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

- Positive on/off logic
- Negative trim
- Case grounding pin
- 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%
Switching Frequency	Typical (3.3V)	230KHz	Line Regulation	Typical	±0.1%
Isolation Voltage	In/Out	1500V	Load Regulation	Typical	±0.1%
Isolation Capacitance	Typical	1500pF	Ripple & Noise	Typical	75 mV
Isolation Resistance	Minimum	10M Ohms	Current Limits	Typical	130%
MTBF	Bellcore	2M hours	Over Voltage	Typical	120%
OTP	Typical	110°C	Voltage Trim		+10%, -20%
Size		2.28"x2.40"x0.50"			

Part Numbering System

H	48	S	T	3R3	60	N	R	Space	A
Type of Product	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length		Option Code
H- Half Brick	48V	S- Single	T- IMS, Negative trim L- IMS, Positive trim	1R5- 1.5V 1R8- 1.8V 2R5- 2.5V 3R3- 3.3V 050- 5.0V 120- 12V	20- 20A 40- 40A 60- 60A	N- Negative P- Positive	R- 0.170" N- 0.145" K- 0.110"		A- Standard Functions

Model List

PRODUCT FAMILY	MODEL NAME	INPUT	OUTPUT	EFF @ 100% LOAD
20A Series	H48SL12020NR A	36V~75V	TBD	TBD
40A Series	H48SL05040NR A	36V~75V	7.4A	90.5%
60A Series	H48SL1R560NR A	36V~75V	3.6A	84%
	H48SL1R860NR A	36V~75V	4.3A	85%
	H48SL2R560NR A	36V~75V	5.7A	88%
	H48SL3R360NR A	36V~75V	7.4A	89%

Mechanical Drawing

