

LTH400 SERIES

DC/DC Converter 12V input: 400 Watts



Features

- Designed for 12VDC input applications
- 400 watts output power
- Convection cooled: No fans
- Over voltage protection
- Overload and short circuit protection
- MTBF > 130,000hrs
- Specials output voltage options
- Any output from 24vdc ~ 130vdc possible
- **N+1** Redundancy Applications – option
- Output DC Fail alarm -Option
- Battery Charging applications - Option

General Specifications

Input Voltage	12VDC (10-16)
Input Current	48A
Input Protection	Reverse polarity protection. Inrush current limiting Input Fuse
Isolation	Input - Output 500vdc Input - Chassis 500vdc Output – Chassis 500vdc
Efficiency	Model dependent , typically 80%
Output voltage	See tables
Output Power	400 watts
Parallel Operation	Optional
Voltage adjustment	Customer specified, typically 5%
Regulation	Output voltage dependant Typically: $\pm 3-5\%$
Output Protection	Over voltage protection Constant Current limiting & short circuit protection
EMI	EN55022 class A
Immunity	EN61000-4
Shock & Vibration	Designed to meet IEC61373 Cat 1 A & B
Operating Temp.	0°C to +50°C at full load. +70°C at 50% load.
Dimensions	127 x 110 x 305mm 2.6kg

Description

The **LTH400** Series DC/DC converter, was designed for **12VDC input** applications and is part of a wider range of units that are available with input voltage options up to 130VDC

It is a mature design with a proven track record in many applications. The unit is equipped with reverse polarity protection on the input, surge protection and input & output filtering.

Cooling is by natural convection and optional ruggedizing & conformal coating is available, for immunity to shock, vibration, humidity, moisture, dust and insects.

An optional redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy. This chassis-mount design is optimized for low component count and high efficiency.

Options

Output Voltage	Special voltage output, up to 130VDC
Alarm	Voltage Free contacts
N+1 Redundancy	Output redundancy diode for parallel operation

Model	Output		Power W
	V	A	
LTH400-12-24FT	24V	16.6A	400W
LTH400-12-28FT	28V	14.0A	400W
LTH400-12-36FT	36V	11.0A	400W
LTH400-12-48FT	48V	8.3A	400W
LTH400-12-110FT	110V	3.6A	400W