

# 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

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

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

Model	Output		Power W
	V	A	
<b>LTH400-12-24I T</b>	24V	16.6A	400W
<b>LTH400-12-28I T</b>	28V	14.0A	400W
<b>LTH400-12-36I T</b>	36V	11.0A	400W
<b>LTH400-12-48I T</b>	48V	8.3A	400W
<b>LTH400-12-110I T</b>	110V	3.6A	400W