

DC-DC Converters

DLS-1248DC Series

12V to 48V DC Power Supply



- *High efficiency*
- *High precision*
- *Heavy duty applications*

DLS-1248DC Series DC-DC Converter Datasheet

10-16 VDC Input and 48VDC output



Applications:

- Automotive
- Telecommunications
- Distributed power
- Defense
- Aerospace
- Medical
- And other applications requiring high efficiency

General Description:

Nelso® is manufacturer of high precision, high reliability DC-DC Converter in Kolkata, India. This product is designed to provide 12V to 48V power conversion for heavy duty applications.

Features:

- Input-output isolation
- High efficiency
- High precision
- Wide input voltage range
- Over-voltage protection
- Under voltage protection
- Reverse polarity protection
- Voltage transient protection
- Over load protection
- Short circuit protection

Quick Reference Data:

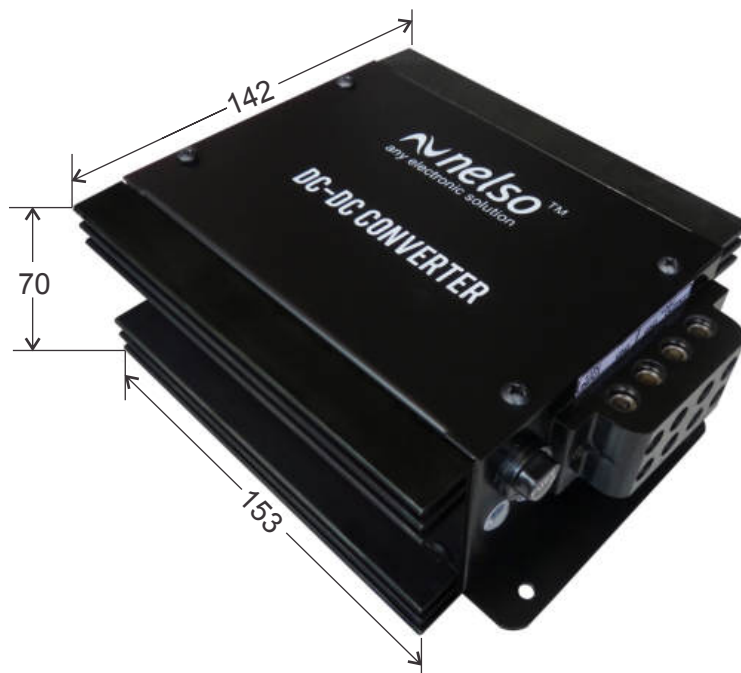
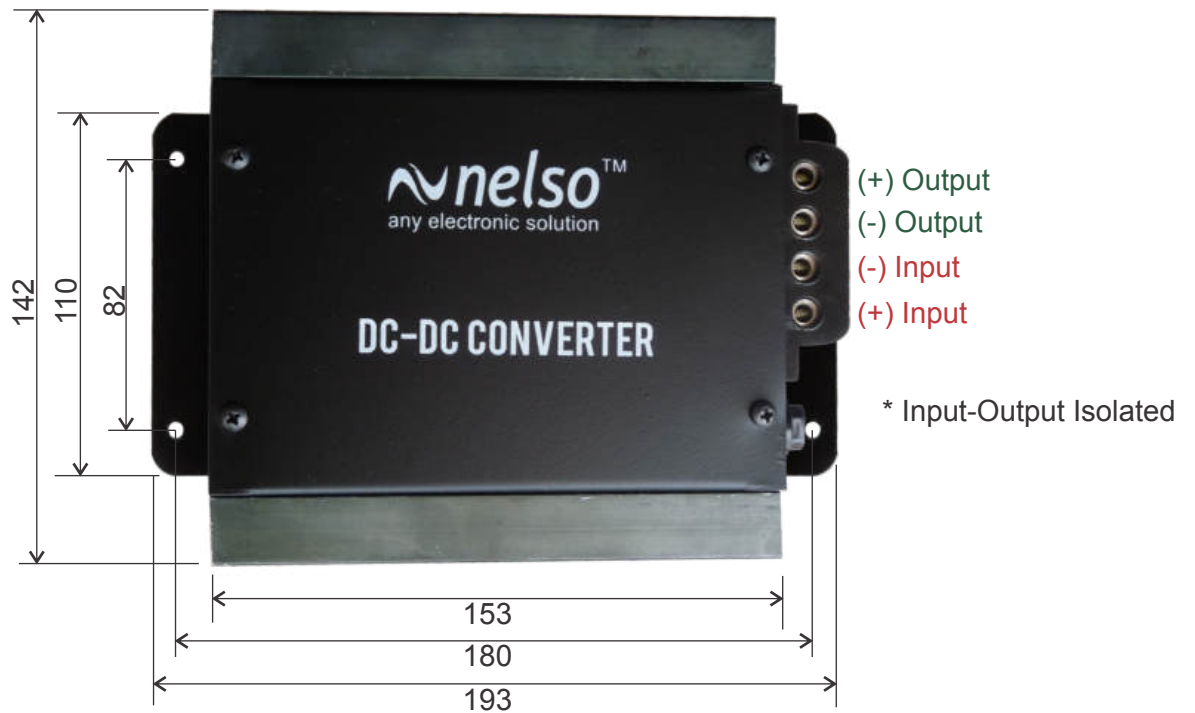
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-1248DC	12V DC	48V DC	2 to 5A	>80%	<150mV

Electrical Specification:

Input Voltage:	10V DC to 16V DC
Output Voltage:	48V DC (Regulated)
Output Current / Wattage:	2A to 5A / 96W to 240W
Reverse Polarity:	30V DC
Line Regulation:	±1%
Load Regulation:	± 5% at terminal block
Switching Frequency:	80 KHz
Efficiency:	>80% Typical
Topology:	Transformer isolated forward converter
Operating Temperature:	-20 to 80 °C
Humidity:	Up to 95% RH
Heat Sink Temperature:	100°C
Storage Temperature Range:	- 55°C to + 105°C
Weight:	1200gm
Dimension (Height x width x depth):	193 x 142 x 70 mm

Mechanical Dimension of DC-DC Converter

Dimension and Pin Assignment



Unit: mm