

DC-DC Converters

DLS-4812DC Series

48 to 12V DC Power Supply



- High efficiency
- High precision
- Heavy duty applications

DLS-4812DC Series DC-DC Converter Datasheet

38-62 VDC Input and 12 VDC 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 48V to 12V 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-4812DC	48V DC	12V DC	3A 5A 8A 10A 12A	85%	<150mV

Electrical Specification:

Input Voltage:	38V DC to 62V DC
Output Voltage:	12V DC (Regulated)
Output Current:	1, 3, 5, 8, 10, 12 A
Reverse Polarity:	85V DC
Line Regulation:	±1%
Load Regulation:	± 5% at terminal block
Switching Frequency:	80 KHz
Efficiency:	80% Typical
Topology:	Transformer isolated forward converter
Operating Temperature:	-40 to 80 °C
Humidity:	Up to 95% RH
Heat Sink Temperature:	100°C
Storage Temperature Range:	- 55°C to + 105°C
Weight:	475gm
Dimension (Height x width x depth):	150 x 150 x 63 mm