

# DC-DC Converters

## *DLS-4812DC-LW Series*

*48V to 12V DC Power Supply*



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

# DLS-4812DC-LW Series DC-DC Converter Datasheet

## 38-62 VDC Input and 12VDC 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-LW	48V DC	12V DC	1-5A	>80%	<150mV

### Electrical Specification:

Input Voltage:	38V - 62V DC
Output Voltage:	12V DC (Regulated)
Output Current / Wattage:	1 - 5A / 12W-60W
Reverse Polarity:	100V DC
Line Regulation:	±1%
Load Regulation:	± 5% at terminal block
Switching Frequency:	80 KHz
Efficiency:	>80% Typical
Topology:	Transformer isolated flyback 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:	550gm
Dimension (Length x Width x Height):	146 x 84 x 57 mm

## Mechanical Dimension of DC-DC Converter

All units are in “mm”

