

DC-DC Converters

DLS-4812DC-DIN Series

48V DC to 12V DC DIN Rail Type Power Supply



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

DLS-4812DC-DIN 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 DIN Rail type 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:

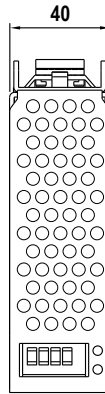
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-4812DC-DIN	48V DC	12V DC	1-5A	>80%	<150mV

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:	±0.5%
Load Regulation:	± 1% at terminal block
Switching Frequency:	80 KHz
Efficiency:	>80% Typical
Topology:	Transformer isolated flyback 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:	425gm
Dimension (Length x Width x Height):	112 x 40 x 125 mm

Mechanical Dimension of DC-DC Converter

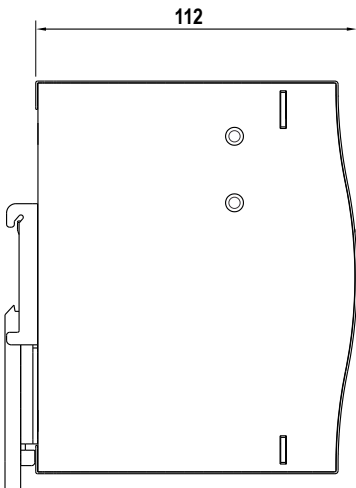
* All units are in “mm”



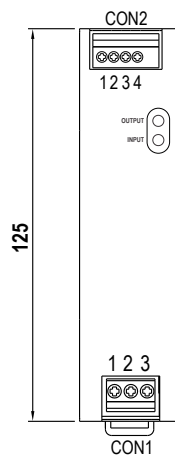
Top View

Terminal Pin No. Assignment (CON2)

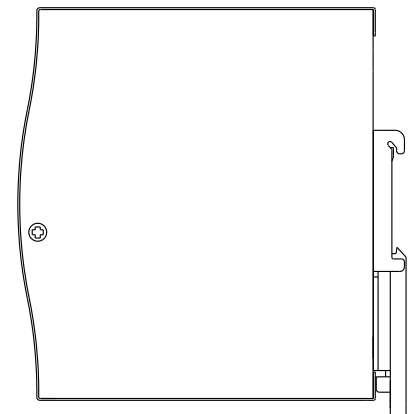
Pin No.	Assignment
1,2	DC Output +Vo
3,4	DC Output -Vo



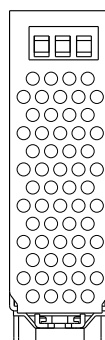
Side View



Front View



Side View



Bottom View

Terminal Pin No. Assignment (CON1)

Pin No.	Assignment
1	FG \oplus
2	DC Input -Vin
3	DC Input +Vin