

DC-DC Converters

DLS-4812DC-HWDIN Series

48V to 12V DC High Watt DIN Rail Mount Power Supply



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

DLS-4812DC-HWDIN 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 Mount 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:

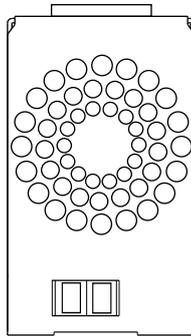
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-4812DC-HWDIN	48V DC	12V DC	10-20A	>80%	<150mV

Electrical Specification:

Input Voltage:	38V - 62V DC
Output Voltage:	12V DC (Regulated)
Output Current / Wattage:	10 - 20A / 120W-240W
Reverse Polarity:	Protected with internal fuse
Line Regulation:	±0.5%
Load Regulation:	± 1% at terminal block
Switching Frequency:	80 KHz
Efficiency:	>80% Typical
Topology:	Transformer isolated forward converter
Operating Temperature:	-20 to 60 °C
Humidity:	Up to 95% RH
Heat Sink Temperature:	100°C
Storage Temperature Range:	- 55°C to + 105°C
Weight:	800gm
Dimension (Height x width x depth):	125 x 108 x 63 mm

Mechanical Dimension of DC-DC Converter

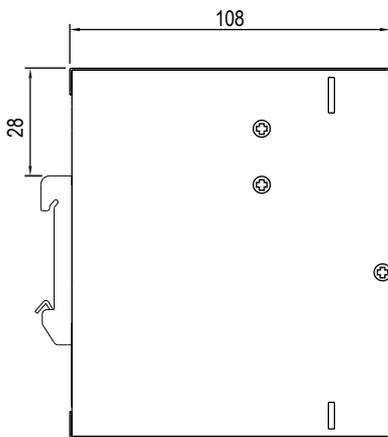
* All units are in "mm"



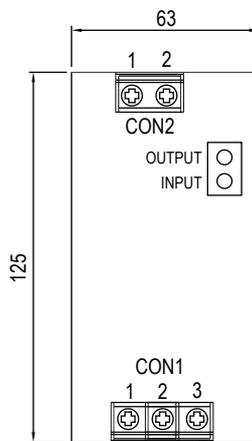
Top View

Terminal Pin No. Assignment (CON2)

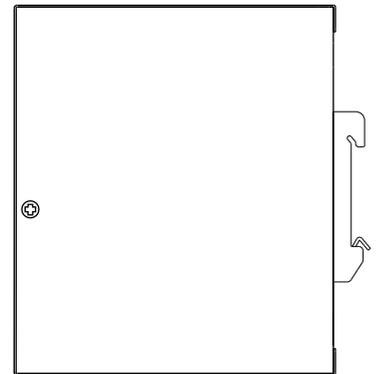
Pin No.	Assignment
1	DC Output +Vo
2	DC Output -Vo



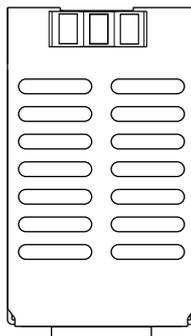
Side View



Front View



Side View



Bottom View

Terminal Pin No. Assignment (CON1)

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