

DC-DC Converters

DLS-1205DC-DIN Series

12V- 5V DC Up to 10A/50W DIN Rail Type Power Supply



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

DLS-1205DC-DIN Series DC-DC Converter Datasheet

10-18 VDC Input and 5VDC 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 12VDC to 5VDC power conversion up to 50W 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:

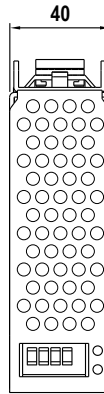
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-1205DC-DIN	12V DC	5V DC	1-10A	>80%	<150mV

Electrical Specification:

Input Voltage:	10V - 18V DC
Output Voltage:	5V DC (Regulated)
Output Current / Wattage:	1 - 10A / 5W-50W
Reverse Polarity:	100V DC
Line Regulation:	±1%
Load Regulation:	± 2% 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

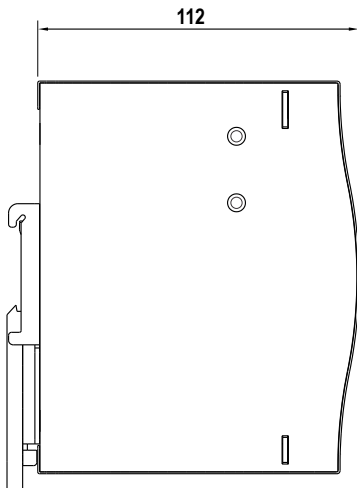
* All units are in “mm”



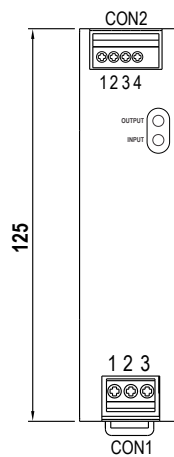
Top View

Terminal Pin No. Assignment (CON2)

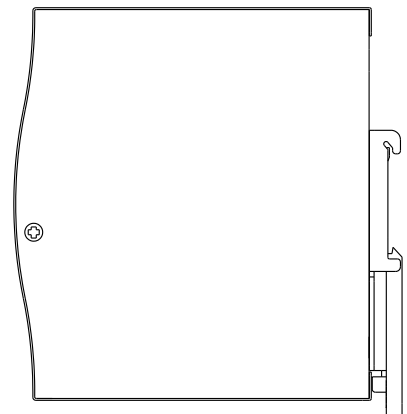
Pin No.	Assignment
1,2	DC Output +Vo
3,4	DC Output -Vo



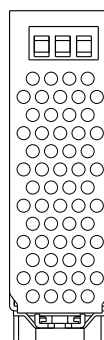
Side View



Front View



Side View



Bottom View

Terminal Pin No. Assignment (CON1)

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