

DC-DC Converters

DLS-7212DC-HWDIN Series

72V DC to 12V DC High Watt DIN Rail Type Power Supply



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



Applications:

- Automotive
- Telecommunications
- Defense
- Aerospace
- Medical
- 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 72V 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:

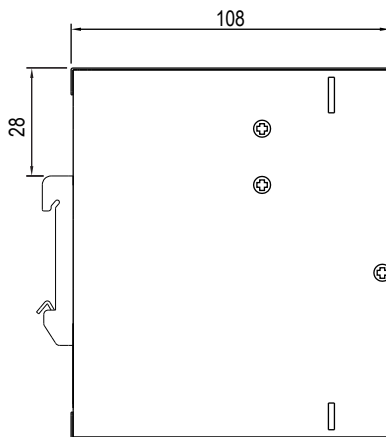
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-7212DC-HWDIN	72V DC	12V DC	11-30A	>80%	<150mV

Electrical Specification:

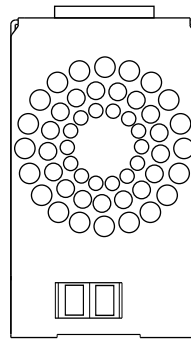
Input Voltage:	65V - 90V DC
Output Voltage:	12V DC (Regulated)
Rated Output Current:	11-30A (Available in different models as required)
Rated Output Power:	132-360W (Available in different models as required)
Line Regulation:	±0.5%
Load Regulation:	± 1%
Switching Frequency:	80 KHz
Efficiency:	>80% Typical
Topology:	Transformer isolated forward converter
Reverse Polarity Protection:	With Internal Fuse (15A)
Over Load Protection:	105-135% of Rated Output Power
Isolation Resistance:	I/P-O/P, 100M Ohms / 500VDC / 25 °C / 70% RH
Operating Temperature:	-20 to 70 °C
Cooling Process:	Natural Air(<250W Model), Forced cooling (>250W Model)
Humidity:	Up to 95% RH
Heat Sink Temperature:	100°C
Storage Temperature Range:	- 55°C to + 105°C
Weight:	800gm
Dimension (Length x Width x Height):	125 x 108 x 63 mm

Mechanical Dimension of DC-DC Converter

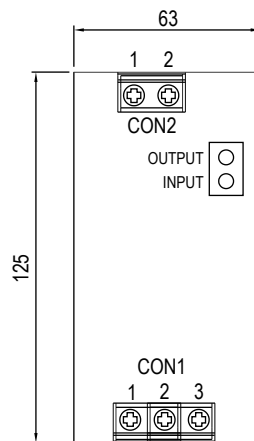
* All units are in “mm”



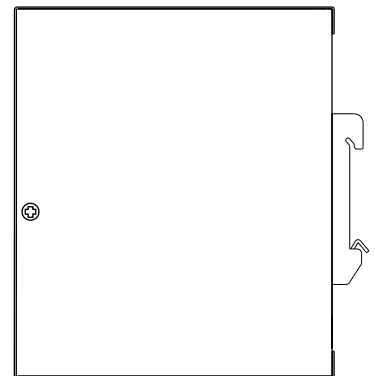
Side View



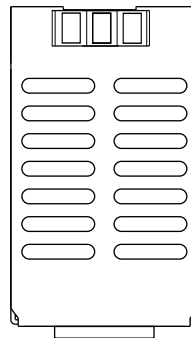
Top View



Front View



Side View



Bottom View

Terminal Pin No. Assignment (CON2)

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

Terminal Pin No. Assignment (CON1)

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

Model Encoding of DC-DC Converter

DLS-7212DC-HWDIN-XXA

