

# DC-DC Converters

## *DLS-220110DC-HWDIN Series*

*220V DC to 110V DC High Watt DIN Rail Type Power Supply*



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

# DLS-220110DC-HWDIN Series DC-DC Converter Datasheet

## 180-260 VDC Input and 110VDC 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 220V to 110V 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:

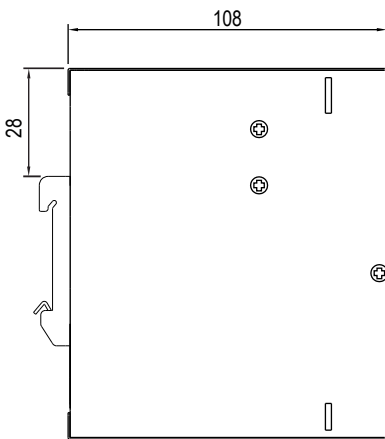
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-220110DC-HWDIN	220V DC	110V DC	2-3A	>80%	<150mV

### Electrical Specification:

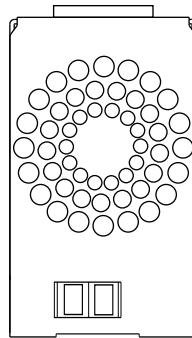
Input Voltage:	180V - 260V DC
Output Voltage:	110V DC (Regulated)
Output Current / Wattage:	2- 3A / 220W-330W
Reverse Polarity Protection:	With fuse
Line/Load Regulation:	±0.5% / ± 1% at terminal block
Over Load Protection:	Above 105% of Rated Output Power
Switching Frequency:	80 KHz
Efficiency:	>80% Typical
Topology:	Transformer isolated forward converter
Operating Temperature:	-20 to 70 °C
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):	108 x 63 x 125 mm

# Mechanical Dimension of DC-DC Converter

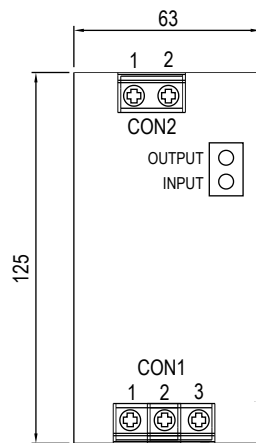
\* All units are in “mm”



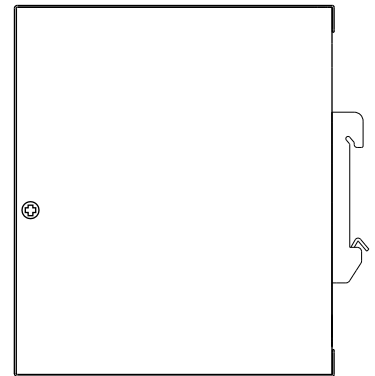
Side View



Top View



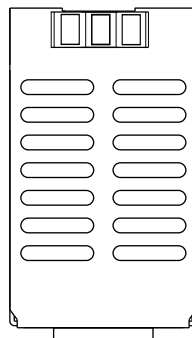
Front View



Side View

Terminal Pin No. Assignment (CON2)

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



Bottom View

Terminal Pin No. Assignment (CON1)

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