

# AC-DC Converters

## *DLS-23012AC-DIN Series*

*230V AC to 12V DC DIN Rail Mount Power Supply*



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

# DLS-23012AC-DIN Series AC-DC Converter Datasheet

## 180V to 270V AC Input and 12V DC Output



### Applications:

- Telecommunications
- Distributed power
- Defense
- Medical
- Home appliances
- And other applications requiring high efficiency

### General Description:

Nelso® is manufacturer of high precision, high reliability DIN Rail type AC-DC Converter in Kolkata, India. This product is designed to provide 230V AC to 12V DC power conversion.

### 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:

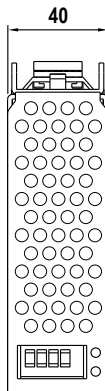
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-23012 AC-DIN	230V AC	12V DC	2A-10A	>80%	<150mV

### Electrical Specification:

Input Voltage:	180V AC to 270V AC
Output Voltage:	12V DC (Regulated)
Output Current:	2A - 10A/24W - 120W
Reverse Polarity:	AC/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:	- 20 to 80 °C
Humidity:	Up to 95% RH
Board Temperature:	80°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 AC-DC Converter

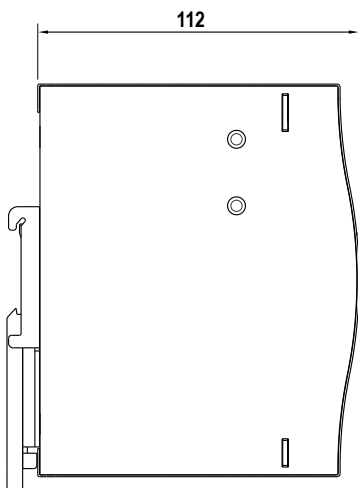
\* All units are in “mm”



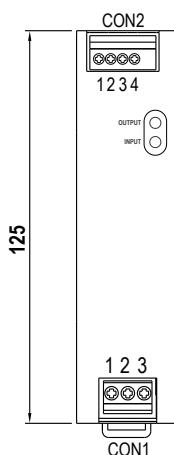
Top View

Terminal Pin No. Assignment (CON2)

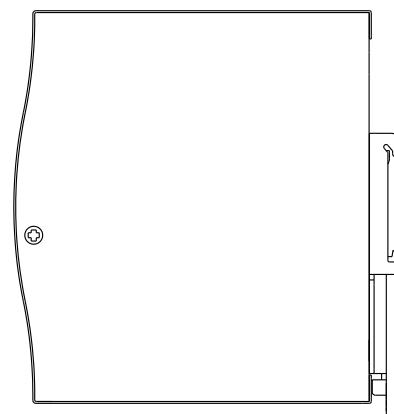
Pin No.	Assignment
1,2	DC Output +Vo
3,4	DC Output -Vo



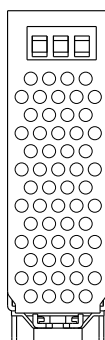
Side View



Front View



Side View



Bottom View

Terminal Pin No. Assignment (CON1)

Pin No.	Assignment
1	FG Ⓢ
2	N
3	L