

# AC-DC Converters

## DLS-23013V8AC Series

230V AC to 13.8V DC Power Supply/Battery Charger Unit



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

# DLS-23013V8AC Series AC-DC Power Supply/Battery Charger

## Datasheet 180-270V AC Input and 13.8V DC 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 AC-DC Power Supply in Kolkata, India. This product is designed to provide 13.8V DC output to charge 12V lead-acid battery.

### 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:

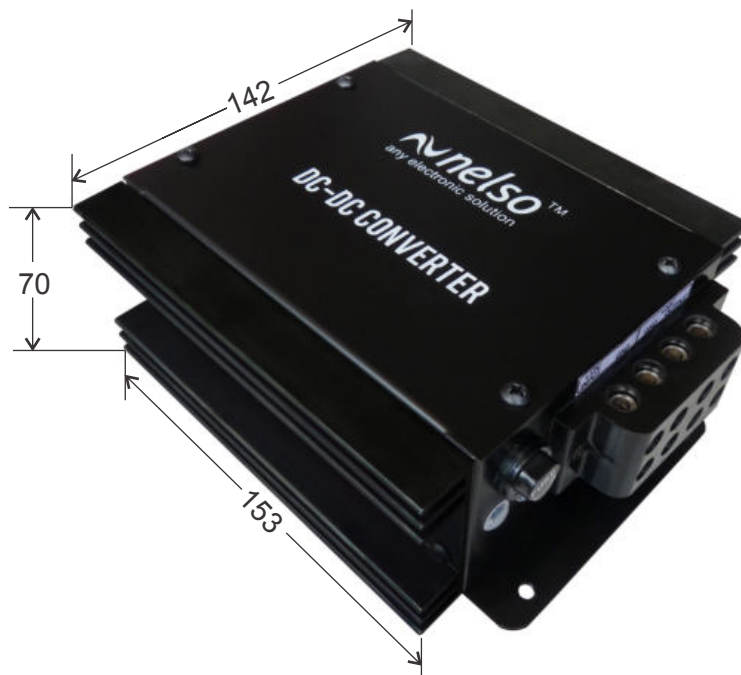
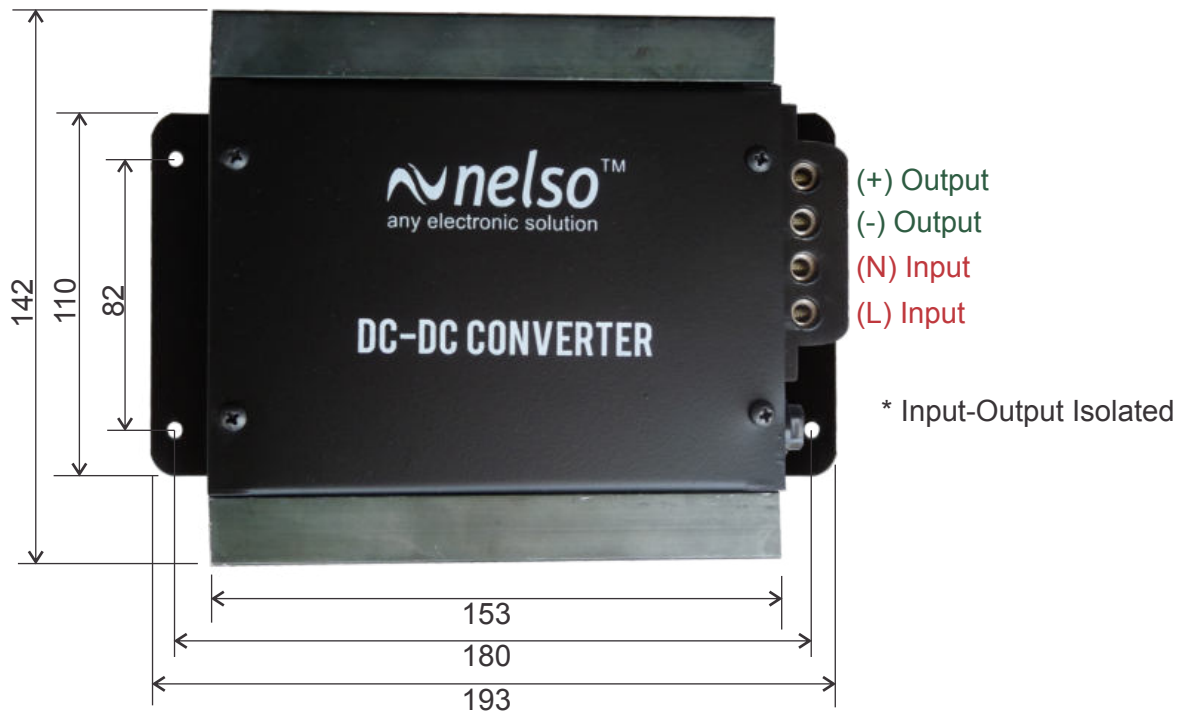
Model No.	Input Voltage	Output Voltage	Output Current	Efficiency	Ripple
DLS-23013V8AC	230V AC	13.8V DC	8-15A	>80%	<150mV

### Electrical Specification:

Input Voltage:	180V AC to 270V AC
Output Voltage:	13.8V DC (Regulated)
Output Current / Wattage:	8A-15A
Output Wattage:	110W-207W
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 80 °C
Humidity:	Up to 95% RH
Heat Sink Temperature:	100°C
Storage Temperature Range:	- 55°C to + 105°C
Weight:	1200gm
Dimension (Height x width x depth):	193 x 142 x 70 mm

# Mechanical Dimension of AC-DC Converter

## Dimension and Pin Assignment



Unit: mm