

# DC-DC Converters

## DLS-11012DC-LW Series

110V to 12V DC Power Supply



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

# DLS-11012DC-LW Series DC-DC Converter Datasheet

## 100-130 VDC Input and 12VDC 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 DC-DC Converter in Kolkata, India. This product is designed to provide 110V 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-11012DC-LW | 110V DC       | 12V DC         | 1-5A           | >80%       | <150mV |

### Electrical Specification:

|                                      |  |
|--------------------------------------|--|
| Input Voltage:                       | 100V - 130V DC                         |
| Output Voltage:                      | 12V DC (Regulated)                     |
| Output Current / Wattage:            | 1 - 5A / 12W-60W                       |
| Reverse Polarity:                    | 200V DC                                |
| Line Regulation:                     | ±1%                                    |
| Load Regulation:                     | ± 5% 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                           |
| Heat Sink Temperature:               | 100°C                                  |
| Storage Temperature Range:           | - 55°C to + 105°C                      |
| Weight:                              | 550gm                                  |
| Dimension (Length x Width x Height): | 146 x 84 x 57 mm                       |

## Mechanical Dimension of DC-DC Converter

All units are in “mm”

