

# DC-DC Converters

## DLS-3648DC-HW Series

36V to 48V DC Power Supply



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

# DLS-3648DC-HW Series DC-DC Converter Datasheet

## 33-45 VDC Input and 48VDC 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 36V to 48V 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-3648DC-HW	36V DC	48V DC	5-10A	>80%	<150mV

### Electrical Specification:

Input Voltage:	33V - 45V DC
Output Voltage:	48V DC (Regulated)
Output Current / Wattage:	5 - 10A / 240W-480W
Reverse Polarity:	100V DC
Line Regulation:	±1%
Load Regulation:	± 2% 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
Cooling Process:	Forced convection cooling by fan
Storage Temperature Range:	- 55°C to + 105°C
Weight:	1400gm
Dimension (Length x Width x Height):	242 x 155 x 95mm

## Dimension and Pin Assignment

