

DCIS-4812 Series Isolated DC-DC Converter



Overview

The **DCIS-4812** series isolated DC-DC converter is designed to drop EV traction battery voltages to 12V to supply devices such as headlights and audio systems. It features a small form factor, high efficiency, stabilized output voltages, and extensive protection against faults.

DCIS series isolated DC-DC converters are electrically isolated from input to output for enhanced safety. The stabilized output voltage can charge 12V batteries. Multiple DC-DC converters can be used in parallel directly to increase output current.

Specifications

Input Voltage:48VOutput Voltage:12VMax. Output Current:50AMaximum Efficiency:≥88%Intrusion Protection:IP65

Operating Temperature: -20°C-+60°C

Protections & Functions

Water & Vibration Sealed with silicone to
Resistance: withstand moisture in harsh

environments

Key Switch Control: The device can be wired to

a key switch or an input

relay

Overheat Protection: Automatic current

reduction above 65°C without shutdown

Short Circuit Protection: Shuts down and resets

automatically

Undervoltage Protection: Shuts down when battery

voltage is too low to avoid

over-discharge

Connections

Yellow: Input + (1.5mm2)

Red: Output + (6.0mm2)

Grey: Input - (1.5mm2)

Black: Output -) (6.0mm2)

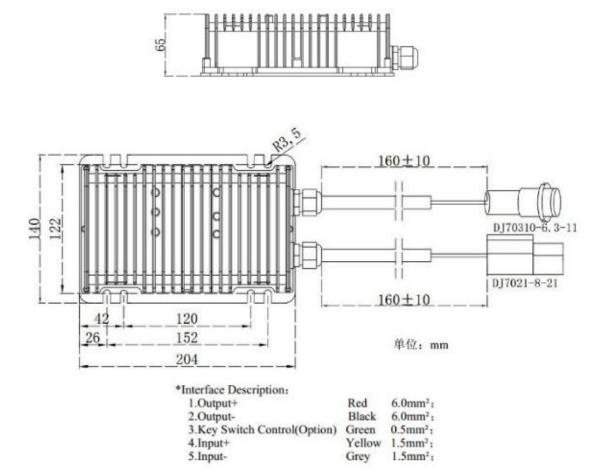
Green: Key Switch Controls (Option) (0.5 mm2)

Notes

1. Do not switch input and output wires. Incorrect connection will cause damage.

2. Do not open the enclosure of the device as there is risk of electric shock.

Mechanical Dimensions - DCIS-4812 Series DC-DC Converter



Type 2 male/female connectors

Pin Connectors - DCIS-4812 Series DC-DC Converter



- Pin 1 Green
- Pin 2 Grey
- Pin 3 Yellow

Wiring Diagram - DCIS-4812 Series DC-DC Converter

