

#### DCIS-8412 Series Isolated DC-DC Converter



## Overview

The **DCIS-8412** 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.

## **Protections & Functions**

Water & Vibration Resistance:	Sealed with silicone to 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)

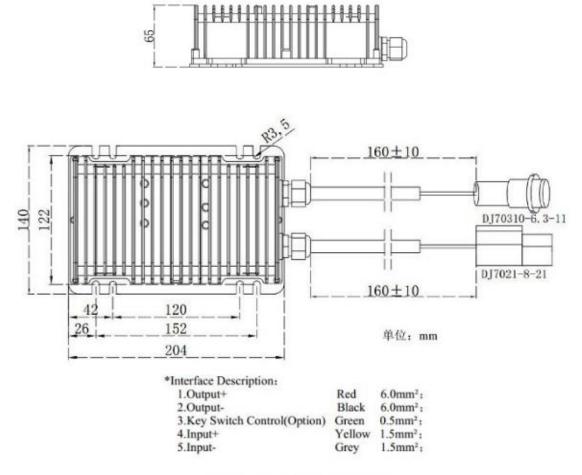
### Specifications

Input Voltage:	84V
Output Voltage:	12V
Max. Output Current:	50A
Maximum Efficiency:	≥88%
Intrusion Protection:	IP65
Operating Temperature:	-20°C-+60°C

#### **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-8412 Series DC-DC Converter



Type 2 male/female connectors

#### Pin Connectors - DCIS-8412 Series DC-DC Converter



Wiring Diagram - DCIS-4812 Series DC-DC Converter

