

# Chennic Technology Co., Ltd

## CHENNIC Isolated DC-DC Inverter

(JCIDI30)



### ■ Description

JCIDI30 series isolated DC/DC converter applies advanced technology and is configured specifically for electric vehicles. It is very suitable to supply power to the lamp and audio system as it is very stable and clean. The advantages of high efficiency, stability and compact size, are achieved by adopting the advanced high frequency technology. It is sealed by silica glue to get water and vibration proof, which ensures the stability of the vehicle in atrocious condition.

It also can be used as a charger to charge the 12V battery in the electric automobile according to the customer's requirement.

Current equalizer is built in, which makes converters work in parallel possible in order to enlarge the capability.

### ■ Specifications

Input Voltage:	36V 48V 60V 72V 96V 120V 144V 156V
Output Voltage:	13.8V @0A (Can be used to charge battery)
	12.0V @30A (typical)
Output Current:	30A
Maximum Efficiency:	≥90%
Environmental Enclosure:	IP68
Shock and Vibration:	SAEJ1378
Safety-North America:	UL2202/UL1564 2nd Edition
Emissions- North America:	FCC Part 15/ICES 003 Class A
Immunity-Europe:	EN61000-4-2/3/5/6/11
Operating Temperature:	-20°C-50°C(-22-122)

### ■ Protections

**Water and Vibration Proofed:** All sealed by silica glue to get water and vibration proof, which is suitable for all kinds of condition.

**Input reverse polarity protection:** Shut down, auto-reset.

**Water Proofed Fuse:** Input or output fuse, simple wiring.

**Short Circuit:** Shut down with little plus current, auto-reset, ensure the wire safety.

**Superheating Cutback:** Reduce output current if the temperature is over 65°C, ensure the continuous power for your car.

**Input Reverse Polarity:** Electronic protection, auto-reset.

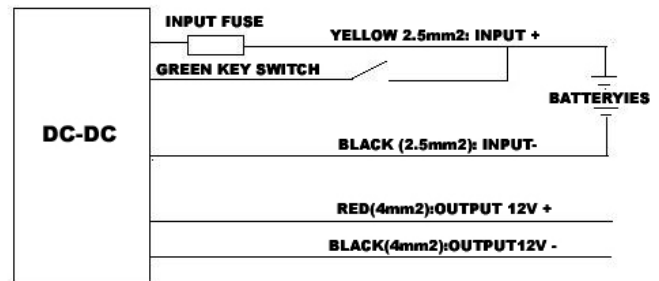
**Input Low Protection:** Shut down, auto-reset, prevent the battery from over discharging

### ■ Type Table

Type	Battery Voltage	Operate Range	Output Voltage	Output current
JCIDI30-3612	36V	28.1—48.7V	12V	30A
JCIDI30-4812	48V	37.5—65.0V	12V	30A
JCIDI30-6012	60V	47.0—78.0V	12V	30A
JCIDI30-7212	72V	56.5—94.0V	12V	30A
JCIDI30-9612	96V	72.0—130.0V	12V	30A
JCIDI30-12012	120V	76.0—145.0V	12V	30A
JCIDI30-14412	144V	120.5—195V	12V	30A

Note: other voltage is available

### ■ Wire



**Note:** It will cause problem when disconnecting the output as input.

### ■ Installation Size

