

12V → 48V IN-CAR CHARGER

SBC-4810



- Double side sticker tape
- 4 heavy duty electrical eye connectors
- Remote LED Indicator Module (w/ 2M cable)
- One plastic wire guide

Description

A smart step up DC-DC charger uses 12V input system to charge 48V battery in 3 stage.

This step up charger provide convenience and reliable way to charge 48V battery in vehicles with 12V standard automotive battery system. It simplifies the wiring and setup for vehicles using 48V devices such as Telecom equipment or LED lighting system.

There are 3 selectable charging profile designated for Lead/ AGM/ LiFePO4.

The 3 stages charging ensure a complete full charge of your 48V auxiliary battery even at a distance from the starting battery as in trailer and caravan.

When charger is set at automatic ignition mode, charging from DC source (starter battery) stops when ignition is turned off. An optional accessory AVS-5025 vibration sensor can be used to automatically control the On-Off charging operation without touching the car's electrical system.

The advanced micro-processor control and hard ware based protections will give timely input low voltage cut off to further protect your starting battery from going flat in addition to protection listed.

Features

- 12VDC to 48VDC step up battery charger.
- Maximum 10A output.
- Selectable battery type between Lead, AGM and LiFePO4.
- Selectable 55.2V DC source mode.
- 3 stages charge for Lead and AGM. 2 stages charge for LiFePO4.
- Soft-start when battery is deeply depleted.
- Automatic Ignition Control to stop charging from starting battery when ignition is off.
- Low Voltage Cut Off Protection for starting battery as DC source.
- Input Over Voltage Protection.
- Self Recoverable:
 - Wrong Polarity Protection for Output.
 - Over Temperature Protection.
 - Overload Protection.
- Supplied with accessory Remote LED indicator Module showing:
 - Battery voltage level when no load connected to battery or Output Voltage from charger.
 - Bulk/Absorption/Float Charging Stage.
 - Optional accessory AVS-5025 vibration sensor to automatically control the On-Off charging operation without touching the car's electrical system at all. This is ideal for non-technical users.

* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

12V → 48V IN-CAR CHARGER

SBC-4810

Specifications

Models	SBC-4810	
Rated Output Power	10A at 55.2VDC	
Optimal Efficiency	≥87%	
DC Input Voltage Range	10-15.5VDC	
Output (Charge) Voltage		
Mode	Absorption	Float
Lead	57.6V	54.0V
AGM	58.8V	54.4V
LiFePO4	56.8V	Stop
DC Source	55.2V	
No Load Input Current	≤600mA	
Protections	Over Temperature Protection, Low Voltage Cut Off, Output Over Charging Current, Output Over Voltage Protection, Input Over Voltage Protection, Input Under Voltage Protection, Input/ Output Wrong Polarity	
Operating Mode		
Ignition Feed (Automatic Mode)	Charge ON 10-15.5V	Charge OFF <10V
Factory Preset Mode	Charge ON 13-15.5V	Charge OFF <13V
Dimension (LxWxH)	260x130x55 mm 10.2x5.1x2.2 inch	
Weight	2.5 kg 5.5 lbs	
Accessories (supplied)	Remote LED Indicator Module (w/ 2M cable), One plastic wire guide, 4 heavy duty electrical eye connectors, Double side sticker tape	
Accessories (optional)	Vibration Sensor AVS-5025	
Recommended Cable Size		
Cable Length 1-5 Meters	Recommended 8AWG	
Cable Length 5-9 Meters	Recommended 6AWG	

* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE