



Optional Remote Control SDR-5100

Description

Optimal Efficiency 92% with Digital Control

The high power conversion efficiency allows quiet and cooling running of the charger and can provide continuous full load operation at 40°C ambient temperature.

Designed to cover old and new types of car alternators

The SBC-6106/ SBC-6111 are designed to address the issues of wide swing of output voltages from the smart alternator, braking regenerative EURO 5/ 6 vehicles in fully charging the house battery. They are also suitable for use with distant house battery. The charger Booster provides fast safe charging profiles for 4 types of lead based and 2 types of Lithium FePO4 batteries.

Multistage Charging

This is a select (battery type) and forget charger designed for fast accurate and safe recharge of your house battery banks. The (digital control) smart multistage charging enables the charger to be connected permanently to your battery banks without the worry of over charging or drying out the electrolyte.

Lead acid based Battery

A 3 Stage Bulk, Absorption & Float charging profile for 4 types of lead acid based battery with maximum constant charging current at the Bulk Stage and a Constant Voltage with decreasing charging at the Absorption Stage and a reduced voltage Float Charge for maintenance when battery is full.

LiFePO4 (LFP) Battery

A 2 Stage charging is specially for 2 types LiFePO4 battery and charging current stops at the end of Absorption stage.

Three Charge Control Methods:

Ignition Control: Charger starts charging only when ignition is on and stops charging when Ignition is off. This is the recommended control as it is safer and allows for large input voltage range.

Input Voltage Control: This is for non-intelligent or older type alternators with sufficient high & uniform voltage. Charging is cut off easily due to high threshold voltage to protect the starting battery.

Vibration Sensor Control: Charger starts charging when repeated vibrations are detected and stops charging when no vibration is detected for over 2 minutes. The built-in vibration sensor makes it possible to use the charger by just connecting to the starter terminal without touching the car's electrical/electronic wiring thus avoiding any possible excuse for revoking the car's warranty.

Supplied accessory:

Remote battery temperature sensor allow the charger monitor battery temperature and automatically compensate the charging voltage according to battery temperature. It protect the battery by cut off output of charging whenever battery temperature are too high or drop below -10°C.

Optional accessory:

With optional SDR-5100 remote control, it enables to set 2 additional User defines charging profile on top of the 6 build-in battery types.

The SDR-5100 remote control come with 4m cable which extend the display from charger to your panel.

You can set battery type, ignition control ON/OFF, Float charge ON/OFF on control as well as monitor the current charge status.

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

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

Features

- 900Watt and 1650Watt power conversion efficiency >90%.
- 6 selective charging profiles suitable for charging for the most lead acid & Lithium FePO4 batteries.
- Supplied with a remote Battery temperature sensor to ensure precise and safe charging in large temperature variation.
- 3 types of operation control to choose for specific situation.
- Alarm signal (fault or not charging) available to integrate with your system.
- Thermostatically speed control Fan.

Protections

- Self recoverable Input under voltage protection.
- Self recoverable Input over voltage protection.
- Self recoverable Output over voltage protection
- Self recoverable Overcurrent protection
- Self recoverable Charger over temperature protection

Specifications

Models	SBC-6106	SBC-6111
Rated Output Power	60A at 13.8VDC	110A at 13.8VDC
Optimal Efficiency	≥92%	
Input		
DC Input Voltage Range	9-16VDC	
No load Input Current	<20mA	
Output Voltage for Different Battery Type		
Battery Type	Output Voltage	
Lead	Absorption: 14.4V ; Float: 13.3V	
Lead 2	Absorption: 14.6V ; Float: 13.5V	
AGM	Absorption: 14.2V ; Float: 13.1V	
AGM 2	Absorption: 14.7V ; Float: 13.6V	
LiFePO4	Absorption: 14.4V ; Float: Stop	
LiFePO4 2	Absorption: 14.8V ; Float: Stop	
Additional Output		
Alarm Output	12V 100mA	
12V signal for ignition use	12V 50mA	
Charge ON/ OFF for Different Setting Mode		
Mode	Condition	
Vibration Sensor Mode	Charge ON: Input 11-16V ; Charge OFF: Input <9V	
Ignition Control Mode	Charge ON: Input 11-16V ; Charge OFF: Input <9V	
Input Voltage Control Mode	Charge ON: Input 13.5-16V ; Charge OFF: Input <12.8V	
Accessories		
Optional Accessories	Battery Temperature Sensor	
Approval	Remote Control SDR-5100	
Cooling Method	CE Completable	
Dimension (LxWxH)	200x130x56 mm 7.9x5.1x2.2 inch	215x130x73 mm 8.5x5.1x2.9 inch
Weight	1 kg 2.2 lbs	1.8 kg 4.0 lbs
Operation Temperature	-10° to +50°C (Full load at +40°C)	

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

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE