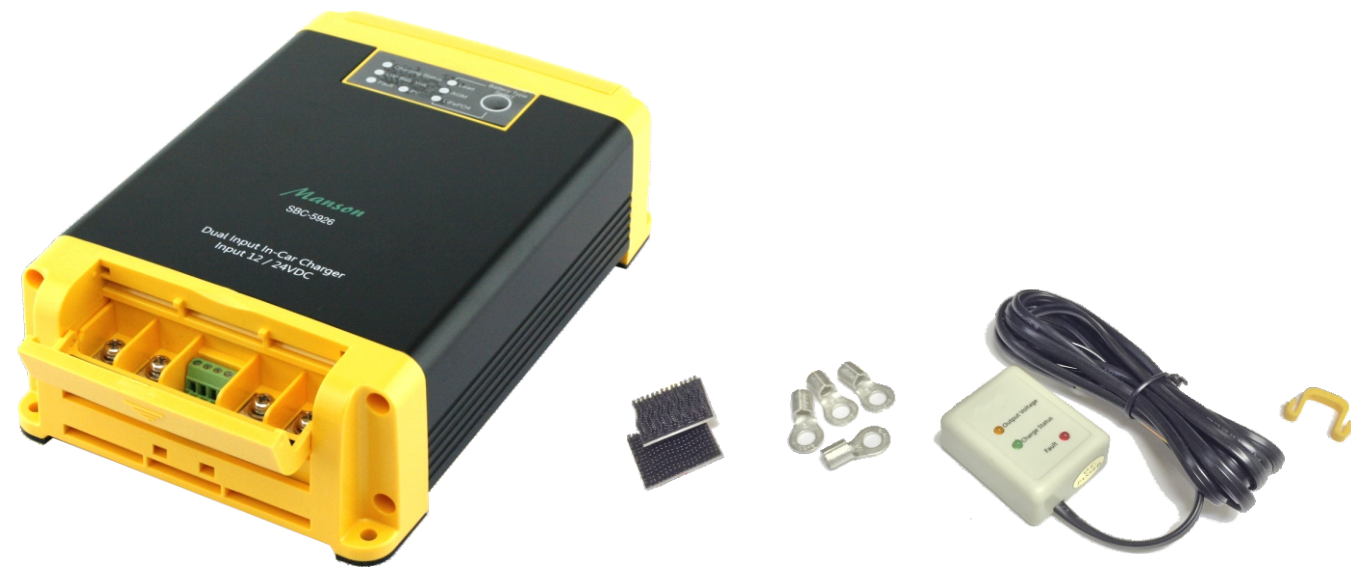


**20A DUAL INPUT (SOLAR MPPT & DC) BATTERY CHARGER**  
with VIBRATION SENSOR  
SBC-5926



**Description**

The SBC-5926 is designed to address the issues of wide swing of output voltages from the smart alternator, start & stop, braking regenerative EURO 5/6 vehicles in fully charging the house battery. It is suitable for use with all old alternator system and distant house battery.

There are 3 alternator charging modes available, Factory Preset Mode, Ignition Feed Mode and Vibration Sensor Mode.

The built-in vibration sensor makes it possible to use the charger by just connecting to the starter battery terminal without touching the car's electrical/ electronic wiring thus avoiding any possible excuse of revoking the car's warranty.

The digital control and auto-select design of SBC-5926 make it automatically adapt to 12V or 24V input alternator/ battery system.

This is an automatic dual input solar & alternator-battery charger for charging 12V house battery banks of lead acid, AGM type II and Lithium Fe Po4 batteries.

The built in Solar charge controller is of Maximum Power Point Tracking (MPPT) technology which maximizes the PV power from your 12V solar panels to your house battery.

In 12V alternator/ battery system, the house battery is charged by both Solar and alternator/ battery simultaneously to maximize the free solar energy .

\*\*In 24V alternator/ battery system the house battery is charged by Solar only when the car's alternator/ battery stops charging operation.

This is a select (battery type) and forget charger designed for fast and accurate recharge of your deep cycle house battery. The smart multi-stage 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 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 the LiFePO4 battery and charging current stops at the end of Absorption Stage.

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

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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**Features**

- Dual Input from car battery with alternator and Solar panel.
- Auto select for 12V or 24V car system
- Design all alternators, conventional and smart alternators.
- 3 DC Charge Modes to select :
  - Vibration Sensor Mode
  - Ignition Feed Mode with Automatic or Manual Control setting.
  - Factory Preset Mode ( charging function always on )
- Suitable for Lead Acid, AGM, and Lithium Fe PO4 battery.
- 3 Stage charge for Lead Acid battery & AGM.
- Specific 2 Stage charge for LiFePO4 battery.
- Self Recoverable Protections
  - Input & Output reverse polarity.
  - Input Under Voltage.
  - Input & Output Over Voltage.
  - Over Load, Charger Over Temperature and cooling fan jammed.
  - Low Voltage Disconnect Protection for Starting Battery with auto setting according to the selected DC Charge Mode.
- Supplied Accessories
  - Remote LED Indicator Module (with 2M cable) like the unit front panel.
  - 4 heavy duty electrical eye connectors
  - One plastic wire guide
  - Double side sticker tape for the Remote Indicator Module

**Specifications**

<b>Models</b>	<b>SBC-5926</b>			
<b>Rated Output Power</b>	20A at 13.8VDC			
<b>Efficiency</b>	≥90%			
<b>Input Voltage</b>				
<b>DC Input Voltage Range</b>	9-16VDC (@12VDC Input) / 18-32VDC (@24VDC Input)			
<b>Maximum Solar Panel Open Circuit Voltage</b>	30VDC			
<b>Output (Charge) Voltage</b>				
<b>Mode</b>	Absorption	Float		
<b>Lead</b>	14.4V	13.5V		
<b>AGM</b>	14.7V	13.6V		
<b>LiFePO4</b>	14.2V	Stop		
<b>No Load Input Current</b>	≤25mA			
<b>Protections</b>	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			
<b>Operating Mode</b>				
<b>Car System</b>	12V Car		24V Car	
<b>Vibration Sensor Mode</b>	Charge ON 11-16V	Charge OFF <9V	Charge ON 22-32V	Charge OFF <18V
<b>Ignition Feed (Automatic Mode)</b>	Charge ON 11-16V	Charge OFF <9V	Charge ON 22-32V	Charge OFF <18V
<b>Factory Preset Mode</b>	Charge ON 12.8-16V	Charge OFF <12.2V	Charge ON 25.6-32V	Charge OFF <18V
<b>Recommended PV Panel Size</b>	400W with maximum 30V open circuit voltage			
<b>Dimension (LxWxH)</b>	200x130x55 mm 7.9x5.1x2.2 inch			
<b>Weight</b>	1 kg 2.2 lbs			
<b>Accessories (supplied)</b>	Remote LED Indicator Module (w/ 2M cable), One plastic wire guide, 4 heavy duty electrical eye connectors, Double side sticker tape			
<b>Accessories (optional)</b>	Vibration Sensor AVS-5025			
<b>Recommended Cable Size</b>				
<b>Cable Length 1-5 Meters</b>	Recommended 8AWG			
<b>Cable Length 5-9 Meters</b>	Recommended 6AWG			

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

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