

LEAD ACID BATTERY CHARGER

SBC - 9138 / 9238

High Power Smart Battery Charger with LCD Display

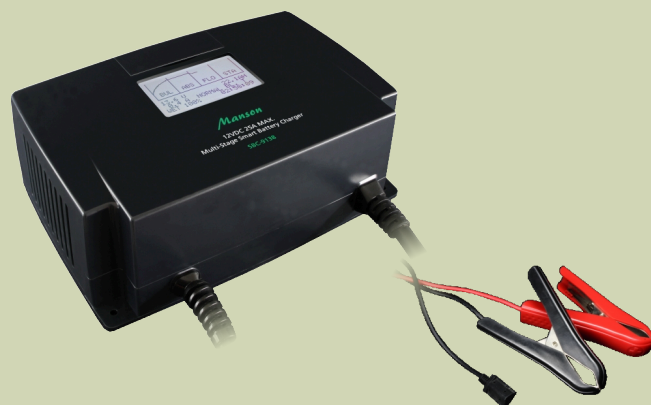
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Description

This is a deluxe version of SBC-9138/ 9238, it is designed for more inquisitive users who want to monitor the real time status of the charging stages in a graphic presentation, charging voltage and current, and how much Ampere Hours have been fed into the batteries. Other important information such as selected battery type, setting of maximum charging current, and in the case of fault, type of fault are also displayed in the LCD.

The software based MCU control 7 stage smart charger is designed with user friendly features and software plus hardware protections. It is a set, connect and forget charger that ensures complete recharge of your battery. Your battery can be connected indefinitely to the charger which will enter into energy conservation mode to prevent over charging and save electricity bills. The battery state of charge and temperature are closely monitored, updated, & logged by the MCU and the remote temperature sensor mounted on the supplied charger cable and heavy duty battery clamps. Though the charger basically is engineered to charge high capacity battery/ banks, it can be made to charge much smaller battery by selecting the right reduced output setting. This charger can also be converted to a fixed voltage power supply with one simple concealed switch setting.

The extensive protections with alarm & LCD indications including the thermostatic decrease of charging current to shut down ensure a durable working life span even in harsh conditions for the charger and the battery. There are selections for Wet, AGM, GEL, and Calcium-Calcium battery types. Special evaluation, re-conditioning charging profiles are made for the Wet type battery.



Features

- Software based MCU control 7 Stage Lead Acid Battery Charger
- Fixed Voltage Power Supply selectable
- Selectable for Wet/ AGM/ GEL & Calcium-Calcium batteries showed in LCD
- Adjustable maximum charging current from 20% to 100% for wide range of Battery AH.
- Extensive protections with alarm and LCD indications .
- Auto decrease of charging current in high working temperature to shut down
- LCD graphic indication for each of the charging stage and the 8 protection status
- LCD displays real time Charging Voltage, Current & Ampere Hours to battery.
- Supplied with charging cable and clamp mounted with the wired remote temperature sensor

Specifications

Model	SBC - 9138		SBC - 9238	
AC Input Voltage 200 - 240VAC, 50Hz~	Yes			
AC Input Current at Full Load (at 230VAC)	2.9A			
Output (Charge) Voltage Selections				
	Absorption	Float	Absorption	Float
WET	14.4V	13.5V	28.8V	27.0V
AGM	14.3V	13.2V	28.6V	26.4V
GEL	14.1V	13.7V	28.2V	27.4V
CALCIUM	15.1V	13.8V	30.2V	27.6V
Recondition (for WET battery only)	15.9V / 3A		31.8V / 3A	
Power Supply Mode	13.3V		26.6V	
Maximum Output Charging Current	25A		13A	
Soft Start Bulk Charge				
Battery Voltage to Trigger (cut-in) Soft Start Bulk Charge Mode	<11V		<22V	
Soft Start Bulk Charge Current Level (current limit)	1/2 of the charging current			
Ripple & Noise (Peak to Peak)	<200mV			
Efficiency at WET (230VAC)	>85%			
Protections				
Short Circuit Protection	Yes			
Overload Protection	Yes			
Reverse Polarity Protection (by Mosfet))	Yes			
Over Temperature Protection	Yes			
OVP (Output Tracking/ Fixed Over Voltage Protection Selectable)	Yes			
Thermal decrease of charger output power	Yes			
Thermostatically Controlled Variable Speed Fan (0 - full speed)	Yes			
Approvals	CE	EN 60335	EN 55014	EN 62233
Charge Cycle, Protection Indication				
LCD Graphic each Charging Stage and Protection Status	Yes			
Build in temperature sensor in battery clamp	Yes			
Plastic housing w/Mounting flange	Yes			
Dimension (WxHxD)	220x80x140mm	8.7x3.2x5.5inch.		
Weight	2kg	4.4lbs.		
Accessories (Charging Cable with Battery Clamp)	Yes			
Recommended Battery Capacity Range	20AH to 250AH		10AH to 125AH	

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

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE