

# Switching Mode Programmable Automatic Charger for Lead-Acid Battery

SBC - 8112 / 8125 / 8215

## Description

This series of Switching Mode Automatic Chargers are built for high current charging of flood and sealed (Gel and AGM) types of Lead Acid Batteries. Charger can be safely left connected to battery all the time. Charging battery under loading is an added feature.

User selection of suitable Boost charge voltage according to battery manufacturer, recommendation, and the discharged state of the battery as well. Good line regulation and the switching mode technology allow large fluctuation of input voltage as typically as from dock power or generators. These plus the low ripple DC output will prolong the life of the batteries. Remote temperature sensor to protect battery from overheat during charging.

## Safety Features

- Overload and Short Circuit protection
- Reverse polarity protection
- Over temperature protection to batteries by remote sensor
- Transformer isolated to protect against electrolysis

## Features

- Two step charging
- Suitable for all types of Lead Acid Batteries
- Selection of Boost charge voltage and Semi Boost charge according to type and discharge state of battery
- Automatically change between float and boost charging mode
- Timed charging mode available. (2/4/8hrs. factory preset)
- Charger can be left connected to battery permanently
- LED indicator for different charging mode and battery over temperature
- Wide Input Voltage Range with good line regulation
- Active Power Factor Correction (available in Standard CE version / optional on other version)
- High Efficiency 80%
- Light and Compact



## Specifications

	<i>SBC - 8112</i>	<i>SBC - 8125</i>	<i>SBC - 8215</i>
<b>Applicable Battery</b>			
Battery Type	Flood, Sealed (Gel, AGM)		
Battery Voltage	12VDC	12VDC	24VDC
Recommended Battery Capacity	60 - 150AH	120 - 200AH	60 - 150AH
<b>Output (@ 25°C)</b>			
Rate Current	10A Continuous	20A Continuous	10A Continuous
Float Mode Voltage	13.4VDC	13.4VDC	26.8VDC
Boost Mode Voltage	Wet-14.4 Sealed-13.9VDC	Wet-14.4 Sealed-13.9VDC	Wet-28.8 Sealed-27.8VDC
<b>Charge Indicator LED</b>	Green - Boost, Off - Float, Red - Battery Over Temperature		
<b>Line Regulation</b>	100mV		
<b>Load Regulation (0-100% Load)</b>	200mVrms		
<b>Ripple &amp; Noise (RMS)</b>	25mV		
<b>Efficiency</b>	80%		
<b>Input</b>			
Voltage Range	200 - 250V~ or 90 - 132V~ on request		
Frequency	50Hz - 60Hz		
Active Power Factor Correction	Available in standard CE version / Optional on other version		
<b>Protection</b>			
Overload Protection	Yes		
Short Circuit Protection	Yes		
Reverse Polarity Protection	Fuse Protected		
Battery Over Temperature	Yes (optional temperature sensor)		
<b>Cooling System</b>	Current Controlled Fan		
<b>Approvals</b>	Designed and Manufactured to Comply with CE		
<b>Dimensions (WxHxD)</b>	214 x 160 x 72mm	255 x 200 x 72mm	255 x 200 x 72mm
	8.4 x 6.3 x 2.8in.	10 x 7.9 x 2.8in.	10 x 7.9 x 2.8in.
<b>Weight</b>	1.65kgs (3.6lbs)	2kgs (4.4lbs)	2kgs (4.4lbs)

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

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE \*