

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> |
|--------------------------------------|--|---------------------------------------|---------------------------------------|
| Applicable Battery | | | |
| Battery Type | Flood, Sealed (Gel, AGM) | | |
| Battery Voltage | 12VDC | 12VDC | 24VDC |
| Recommended Battery Capacity | 60 - 150AH | 120 - 200AH | 60 - 150AH |
| Output (@ 25°C) | | | |
| 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 |
| Charge Indicator LED | Green - Boost, Off - Float, Red - Battery Over Temperature | | |
| Line Regulation | 100mV | | |
| Load Regulation (0-100% Load) | 200mVrms | | |
| Ripple & Noise (RMS) | 25mV | | |
| Efficiency | 80% | | |
| Input | | | |
| 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 | | |
| Protection | | | |
| Overload Protection | Yes | | |
| Short Circuit Protection | Yes | | |
| Reverse Polarity Protection | Fuse Protected | | |
| Battery Over Temperature | Yes (optional temperature sensor) | | |
| Cooling System | Current Controlled Fan | | |
| Approvals | Designed and Manufactured to Comply with CE | | |
| Dimensions (WxHxD) | 214 x 160 x 72mm 8.4 x 6.3 x 2.8in. | 255 x 200 x 72mm 10 x 7.9 x 2.8in. | 255 x 200 x 72mm 10 x 7.9 x 2.8in. |
| Weight | 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 *