

# 12V 5A 3 STAGE IUOU HIGH FREQUENCY BATTERY CHARGER

SBC-2105

## Description

SBC-2105 is a compact, efficient switching mode charger for sealed and wet types of lead acid battery. In the Bulk Charge stage it supplies in a constant current mode until the battery voltage reaches to the set V absorption level, charging mode then changes to Absorption Stage. The charger keeps the battery at this V absorption level until charging current drops to I float level and charging mode change to Float stage. The battery is then fully charged and the charger can be kept connected to the battery permanently. In Float Charge stage, the charger will make up for the loss of self discharge of the battery.

The charger has full electronic protections with auto-recovery once the fault has been cleared.

The charger covers a wide range of sealed and wet types of lead acid battery.

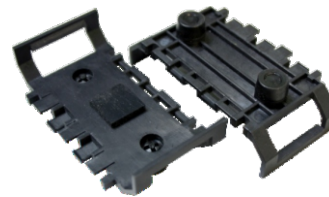
The plastic clip-on mounting bracket makes fixing charger easily even in hard to reach tight location.

## Features

- 3 Stage (IUOU) Switching Mode lead acid battery charger
- 2 Selectable settings for Sealed and Wet battery
- LED indicators for charging and Full / Float mode
- Wide tolerance for mains voltage (180~260V)

## Electronic Protections with Auto Recovery

- Output short circuit output may be short circuited without damage to charger.
- Reverse polarity battery leads may be wrongly connected to battery without damage the charger and battery.
- Over Voltage The charger's output will shut down when output voltage is over 16.5V.
- Over temperature Output will cut off when temperature of charger is too hot.
- Battery Under Voltage Protection-Charger stops charging when battery under 7.5V to avoid charging wrong battery (6V and less) or faulty battery.



Plastic Mounting Bracket

## Specifications

Models	SBC-2105	
AC Input Voltage	180-260VAC, 50Hz~	
AC Input Current at Full Load (at 230VAC)	0.8A	
Output (Charge) Voltage Selections (2 battery type)		
Mode	Absorption	Float
Sealed Battery	13.8-14.1V	13.2-13.5V
WET Battery	14.1-14.4V	13.4-13.7V
Maximum Output Charging Current (continuous)	5A	
Line Regulation (180-260VAC) for Charging Current	≤30mV	
Ripple & Noise (peak-peak)	≤120mV	
Efficiency at Maximum Power	≥80%	
Protections	Short Circuit, Overload, Over Temperature, Reverse Polarity, OVP (Output Over Voltage Protection)	
Battery Under Voltage Protection	Yes, when batt. volt. <7.5V, charger will stop charging batt.	
Approval	CE EN 60335, 55014	
Charge Indication	1 LED, Red: Charging ; Green: Full or Float	
Casing Material	Anodized Aluminum	
Dimension (WxHxD)	140x75x32 mm 5.6x3.0x1.3 inch	
Weight	700 g 1.5 lbs	
Included Accessories	Cable, Mounting Clips	
Recommended Battery Capacity Range	20-50AH	

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

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE