

## BATTERY CHARGER **MBC**

### Description



This charger is made for all types of lead-acid chargeable batteries, including Gel-batteries. It is a fully automatic charger with an UI charging characteristic. The charger can permanently be connected to the battery without the risk of overcharging. When the battery is fully charged the charger automatically switches over to the floating charging (yellow and green LED lit, 13.8/27.6 V). This will continue until the charger is switched off. The charger automatically starts the mains charging mode after a mains-break (yellow LED lit 14.4/28.8 V). The charger is waterproof (IP65).

### Concerned models

Range	Battery Voltage
MBC 12-06/1	12 Vdc
MBC 12-15/1	
MBC 24-03/1	24 Vdc
MBC 24-08/1	
MBC 24-32/1	

### Dimensions

Range	l x w x h [mm]
MBC 12-06/1	155 x 80 x 36
MBC 12-15/1	195 x 100 x 47
MBC 24-03/1	155 x 80 x 36
MBC 24-08/1	195 x 100 x 47
MBC 24-32/1	245 x 157 x 47

### Installation

The charger can simply be placed in any position on a clean and dry surface using 4 screws or bolts. Connect the red wire to the positive battery terminal and the black wire to the negative battery terminal. Connect the mains cable to a 230/115 Vac mains voltage outlet.

### Trouble shooting

- Check the mains powers to the charger
- Check the "car fuse" on the charger's battery cable
- If the charger still doesn't work, please contact your dealer

## Technical specifications

Parameters	
Mains	1-phase 230 V (100-260 V) 40-60 Hz. At 110 V mains voltage the charging current is approximately 40 % of the nominal power.
Consumption standby on mains side	30 mA (50 mA for the MBC 24-32/1)
Efficiency	>85 % (>90 % for the MBC 24-32/1)
Secondary fuse	"Car fuse" protection against reverse polarity on connected battery.
Short circuit proof	Without blowing the secondary fuse
Standby consumption on battery side	<2 mA (<0.1 mA for the MBC 24-32/1)
Mains charging	Yellow LED lit (14.4/28.8 V). Maximum 20 hours charging time. Switch to maintenance charging when current is ~5 % of rated current.
Floating charging	Yellow and green LED lit. Battery is fully charged (13.8/27.6 V)
After mains break	Charger starts at 14.4/28.8 V, without battery or load the charger starts at 13.8/27.6 V
Protection class	IP65 (waterproof)
Safety class	Class 1 for the MBC 12-15/1; MBC 24-08/1; MBC 24-32/1 Class 2 (no earth in the mains cable) for the MBC 12-06/1; MBC 24-03/1
Operation temperature	-25 °C to +50 °C
Temperature protection	Switches off at 60 °C and starts again at 50 °C

## Information

In accordance with the following EN-norms:

- EN60 335-1, EN60 335-2-29, EN 55 014, 55104, EN60 555-2, EN 60555-3.
- Swedish SS433077 (Vibration).

## Warning

**Batteries can generate explosive gases – avoid open flames or sparks. It is not allowed modifying the mains cable!**