

# MCB12V/5A MCB24V/5A - BATTERY CHARGER

## DESCRIPTION:

**MCB** - battery charger is designed for permanent connection to automotive Lead-Acid battery, maintaining a fully charged condition without overcharging (**TRICKLE CHARGE**). The current is adjustable within a range between 10% and 100% of full-scale. **QUICK CHARGE** mode, selected by pressing a push button (E), allows you a rapid charging of the battery (140% of full-scale). Typical applications of **MCB** include: standby engines, pumps and generators.

## SPECIFICATIONS:

**DC OUTPUT:** 12V (MCB12) or 24V (MCB24)

**OUTPUT CURRENT** (adjustable by trimmer):

- max. 5A (**NORMAL CHARGE**)

- max. 7A (**QUICK CHARGE**)

**AC INPUT:** 200V-240V / 50Hz

**ALARM OUTPUT:** RELAY with NO / NC / COM (8A / 250Vac)

### LED INDICATORS:

- BATTERY CONNECTED (GREEN) (A)
- QUICK / TRICKLE CHARGE (YELLOW) (B)
- CHARGE / FULL BATTERY (GREEN) (C)
- CHARGER FAIL / ALARMS (RED) (D)

### ALARMS:

- BLOWN FUSE
- MAINS FAILURE
- BATTERY VOLTAGE
- OVER CURRENT

**PROTECTION:** Short Circuit, Reverse Polarity, Over Current / Over Voltage

**FUSES:** 6.3A (AC INPUT) and 8A (OUTPUT CURRENT)

### CONNECTORS:

- AC INPUT: 3 poles connectors
- BATTERY CONNECTOR: 2 poles screw terminal block (2 SETS)
- ALARM OUTPUT: 3 poles screw terminal block

**DIMENSIONS:** 124 (W) x 171 (L) x 103 (H) (without connectors)

**ENCLOSURE:** Extruded Aluminium (base) / Black Coated Steel (cover)

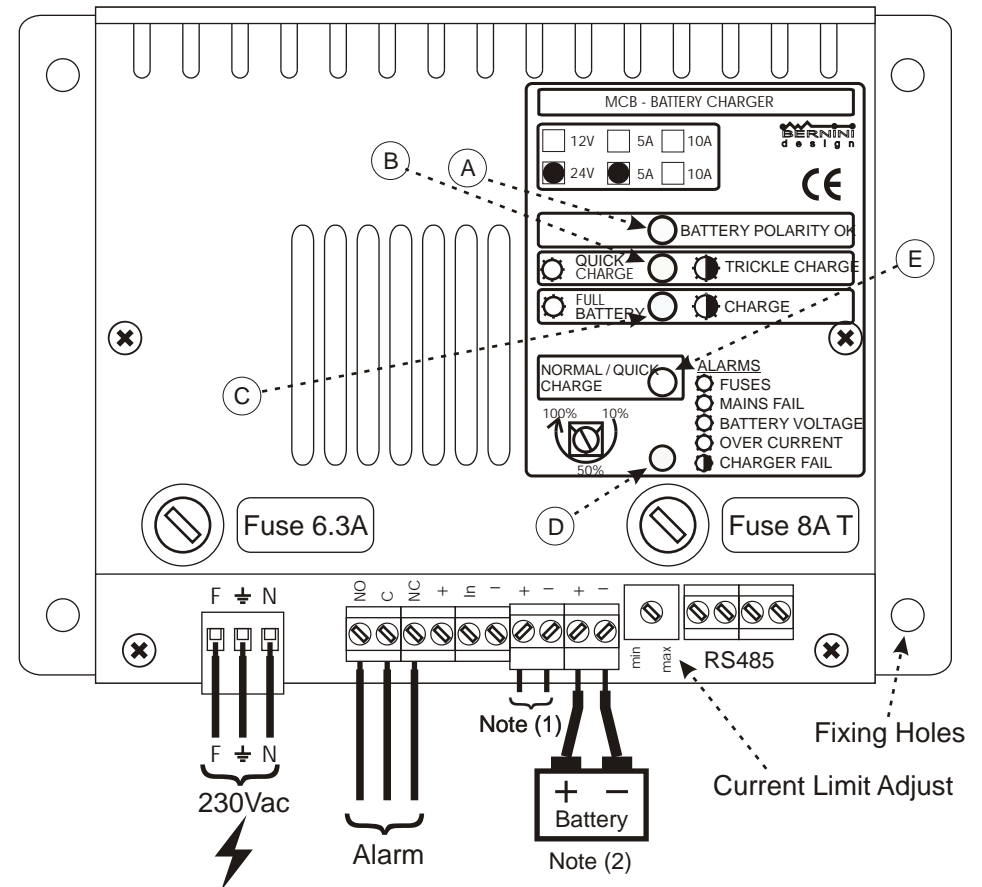
**WEIGHT:** 2.8 Kg

**MOUNTING:** 4 holes (6 mm diameter) at 155 mm x 99 mm (use screws)

**TEMPERATURE RANGE:** -25÷50°C

## INSTRUCTIONS OF USE:

- Disconnect power supply before making any connection at the charger terminal block
- Disconnect the battery if the power supply is not present for a long period of time
- **QUICK CHARGE** mode must be used in accordance with the battery manufacturer's recommendations, otherwise cells damage may occur
- Replace blown fuses by the same type only
- Check the status of the battery if "Charger Fail" alarm is activated for a long period of time (LED (D) is blinking)



## NOTE:

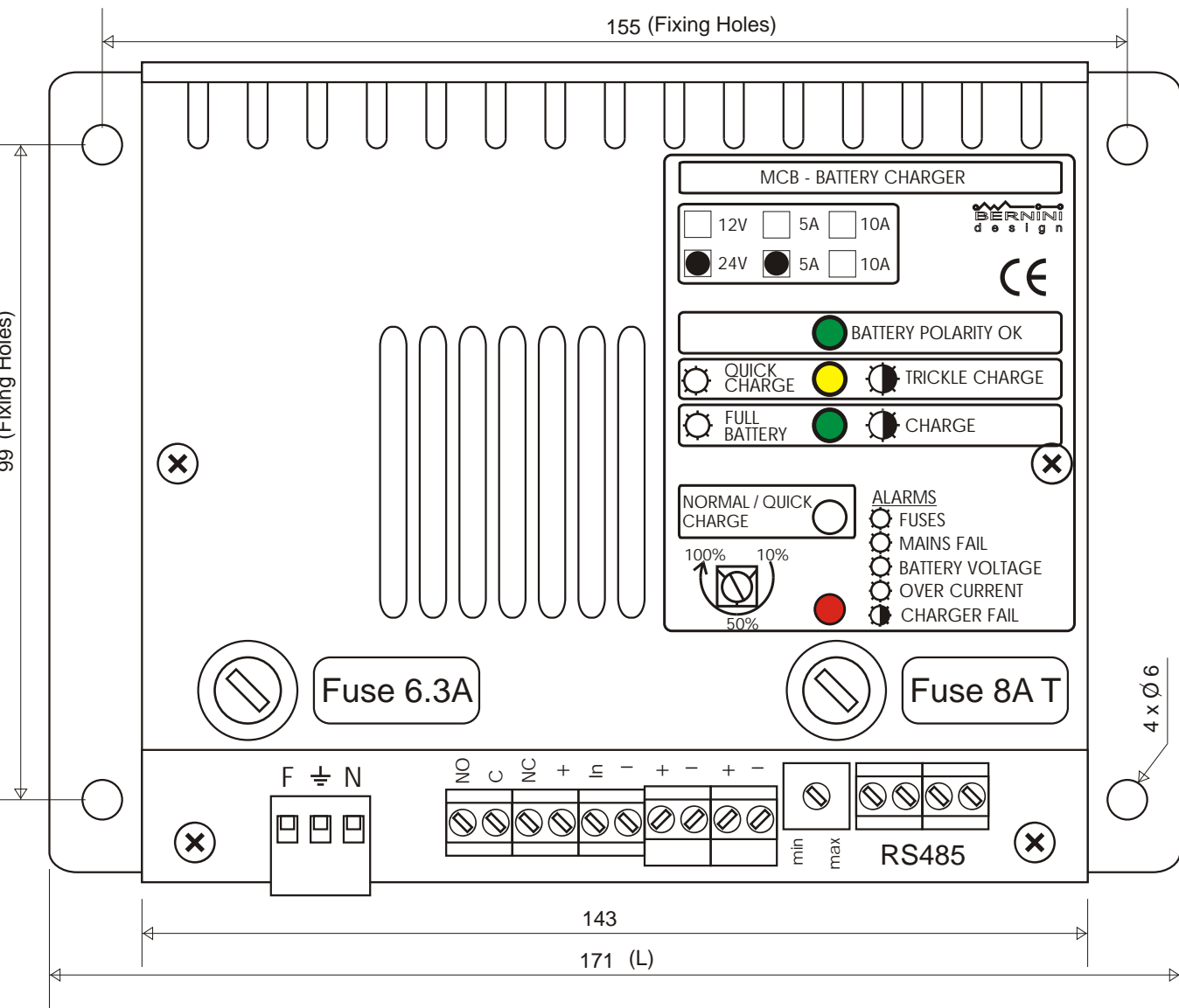
- (1) This terminal block is connected in parallel with BATTERY CONNECTOR
- (2) Nominal battery voltage must correspond to **MCB** unit

LED	STATUS OF THE CHARGER				
	NORMAL CHARGE	QUICK CHARGE	TRICKLE CHARGE	ALARM	CHARGER FAIL
A	ON	ON	ON	ON	ON
B	OFF	ON	BLINK	X	X
C	BLINK	BLINK	ON	X	X
D	OFF	OFF	OFF	ON	BLINK

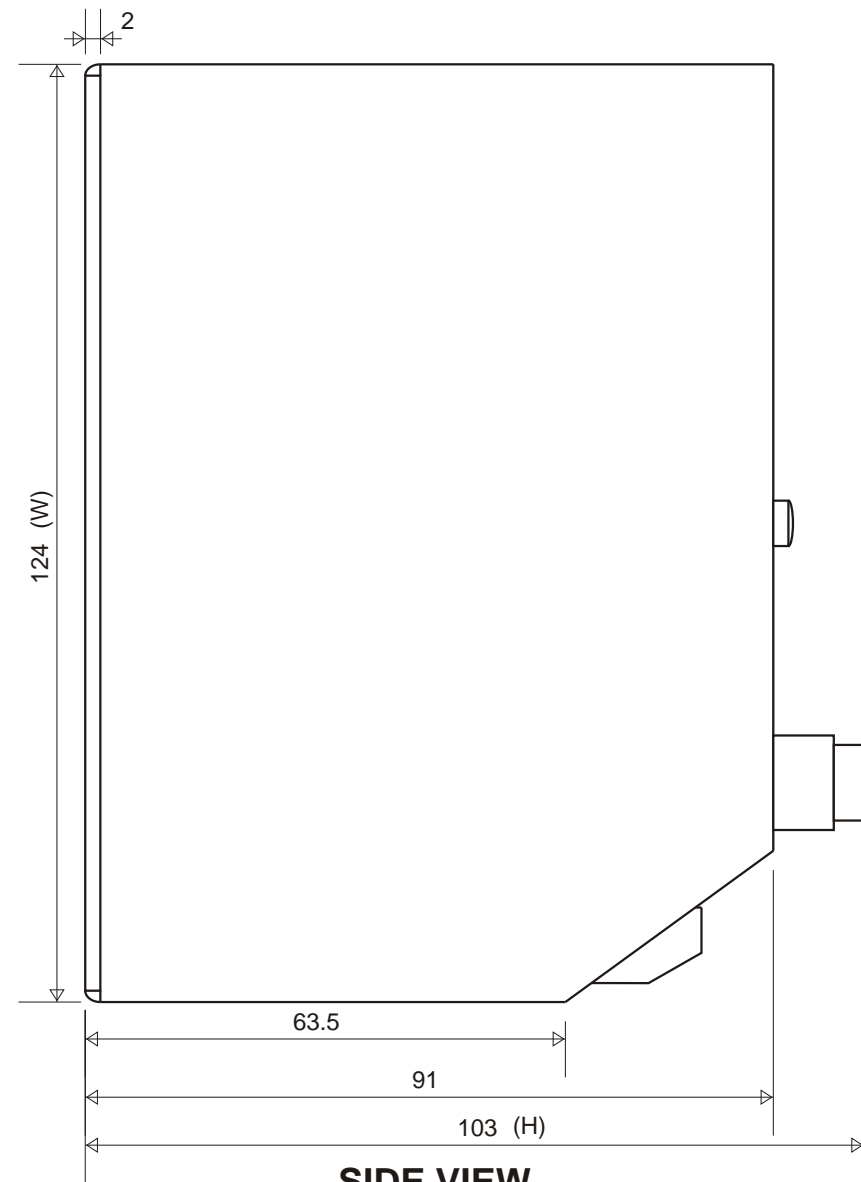
X = Don't care

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**TOP VIEW**



**SIDE VIEW**