

Qoltec[®]

Model: 52490

INSTRUCTION MANUAL

**INTELLIGENT BATTERY CHARGER WITH
REPAIR FUNCTION**

12V 24V

EN

INTRODUCTION

Thank you for choosing our smart battery charger. The charger has been designed to provide safe and efficient charging of 12V/24V batteries. This manual contains all the necessary information for its use. If you have any questions after reading this manual, please contact our Customer Service Department.

ABOUT THE PRODUCT

The 12V/24V battery charger is a high-tech microprocessor controlled device designed for professional battery charging and maintenance. It is compatible with different types of lead-acid batteries such as wet, AGM, GEL, SLA, flooded, as well as EFB batteries. The unit features an easy-to-read LCD display, which allows precise monitoring of charging parameters and a number of protective functions.

Features :

- High efficiency (>85%).
- Fully microprocessor-controlled
- Easy to use, with clear charging status display
- 3-stage charging process
- Charging voltage adapts to temperature
- Capable of charging heavily discharged or highly sulphated batteries
- Protection against reverse polarity, short circuit and spark-free connection
- Battery overcharge protection.

SAFETY INSTRUCTIONS

1. Read these instructions carefully before using the charger.
2. Only use the charger for its intended purpose.
3. Connect the charger to a suitable power source, according to the specifications on the device label.
4. The charger contains dangerously high voltage, so contact the manufacturer in the event of equipment failure.
5. Do not use the charger in high humidity, high temperatures or near flammable or explosive materials.

6. Do not block the ventilation holes or use the charger when the cooling fan is not working.
7. Do not leave the charger unattended during use.
8. Protect the unit from rain and water to avoid damage.
9. Persons without the appropriate qualifications must not open the device or change its purpose. This can lead to serious injury.

Comments

1. Always check the condition of the battery before charging.
2. Avoid charging in extreme temperatures.
3. Maintain the charger regularly to ensure long-lasting and reliable operation.

LCD DISPLAY

Illustration 1 in the appendix

<i>Illustration 2 in the appendix</i>	Temperature
<i>Illustration 3 in the appendix</i>	Charging voltage
<i>Illustration 4 in the appendix</i>	Charging current
<i>Illustration 5 in the appendix</i>	Repair mode
<i>Figure 6 in the appendix</i>	Battery charged
<i>Figure 7 in the Annex</i>	Winter mode: When the ambient temperature is below +10°C, increase the charging voltage.
<i>Figure 8 in the appendix</i>	Summer mode: When the ambient temperature is above +28°C, reduce the charging voltage.
<i>Figure 9 in the appendix</i>	Error Incorrect polarity: Please change the terminal connection. Faulty battery: Please have a mechanic check the battery and, if necessary, replace it. Wrong connection : Please check the connection between the charger and the battery.
<i>Illustration 10 in the</i>	12V or 24V

<i>appendix</i>	
<i>Illustration 11 in the appendix</i>	Current battery capacity

CHOICE OF CHARGING MODE

Figure 12 in the appendix

<i>Illustration 13 in the appendix</i>	For large batteries (fast charging) 12V : Maximum charge current : 8A 24V : Maximum charge current : 4A
<i>Illustration 14 in the appendix</i>	For AGM GEL and calcium batteries
<i>Illustration 15 in the appendix</i>	For small batteries (slow charging) Maximum charging current: 1,5 A
<i>Figure 16 in the appendix</i>	Repair mode is an advanced recovery mode for old, unused, damaged batteries, sulphated or delaminated batteries. Not all batteries can be recovered.
<i>Illustration 17 in the appendix</i>	Selection button

BATTERY CHARGING

1. Check that the battery parameters are compatible with the charger.
2. Connect the red terminal to the positive (+) pole, the black terminal to the negative (-) pole. Connect the power supply cable.
3. Select the appropriate MODE.
4. When the device displays that it is 100% charged, this means that charging is complete.

3-STAGE BATTERY CHARGING

The charger uses intelligent 3-stage charging by adapting the charging voltage and current to the current state of charge of the battery, it consists of 3 stages :

The CC stage is a charge of up to 80% of the battery capacity, with maximum current kept constant and high voltage,

CV stage The rectifier keeps the charging voltage constant between 14.1VDC and 14.8VDC, reducing the charging current,

The FLOAT stage is the so-called maintenance stage in which the battery has already reached 95% capacity and gradually reaches 100%, the charging voltage is reduced to a constant value between 13.0VDC and 13.8 VDC.

TECHNICAL SPECIFICATIONS

INPUT VOLTAGE	220-240V 50/60Hz
OUTPUT VOLTAGE	12V/24V
MINIMUM INRUSH CURRENT	>2.0V
POWER	130W
PEAK CHARGING CURRENT	12V 8A/24V 4A
RECHARGING MODE	3-stage charging mode
BATTERY TYPE	12V/24V SLA (Wet,MF,Gel,VRLA , flooded) 12.6V Lithium, AGM/EFB
CAPACITY OF THE BATTERY TO BE CHARGED	4Ah-105Ah
COOLING	Fan
OPERATING TEMPERATURE	-30°C to+50°C

CONSERVATION

1. Keep the charger clean by using a soft, dry cloth to remove dust and dirt. Do not use chemicals.
2. Regularly check power cables and connectors for damage such as abrasion, cracks or loose connections.
3. Ensure that the vents are clean and not blocked to ensure adequate cooling of the charger.
4. Store the charger in a dry, cool place, away from direct sunlight, moisture and heat sources.
5. Avoid contact of the charger with water or other liquids to prevent electrical damage.

UTILISATION

This product is subject to the regulations for the disposal of electrical and electronic equipment (WEEE). It must not be disposed of with municipal waste. Take the charger to an electro-waste collection point that provides safe recycling in accordance with GPSR standards. Check where the nearest electro-waste collection points are located.

If you have any questions about disposal, contact the manufacturer or an authorised service centre.

INFORMATION ON WARRANTY AND SERVICING

The product is covered by a 24-month manufacturer's warranty from the date of purchase. The warranty covers any defects in materials and workmanship. Please contact our service department if you have any problems with your device to ensure prompt and professional service. The warranty does not cover damage resulting from misuse, falls, mechanical damage, unauthorised repairs or attempts at disassembly. The warranty is invalid if the housing has been opened or the warranty seal has been removed.

ATTACHMENT

1



2

20.0^{°C}

3

12.0^V

4

7.5^A

5

Rep. & ⌚

6

FUL

7

Win.
❄️

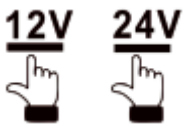
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☀️

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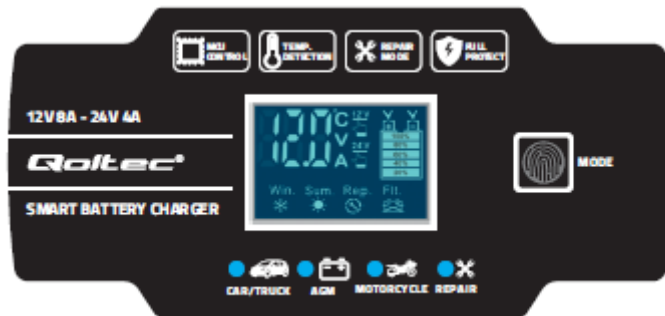
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