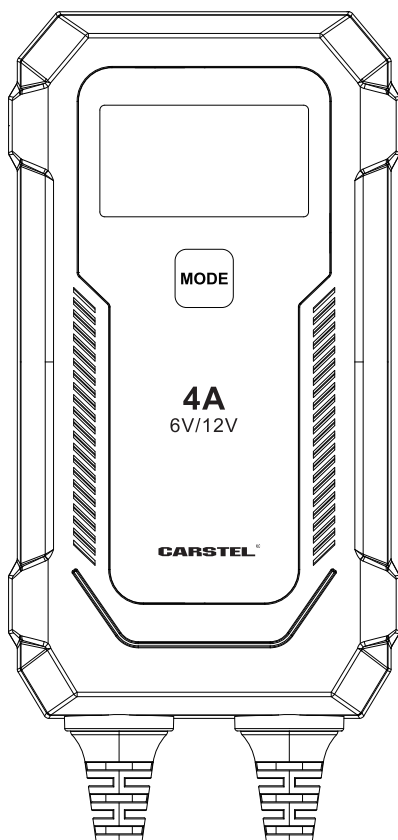


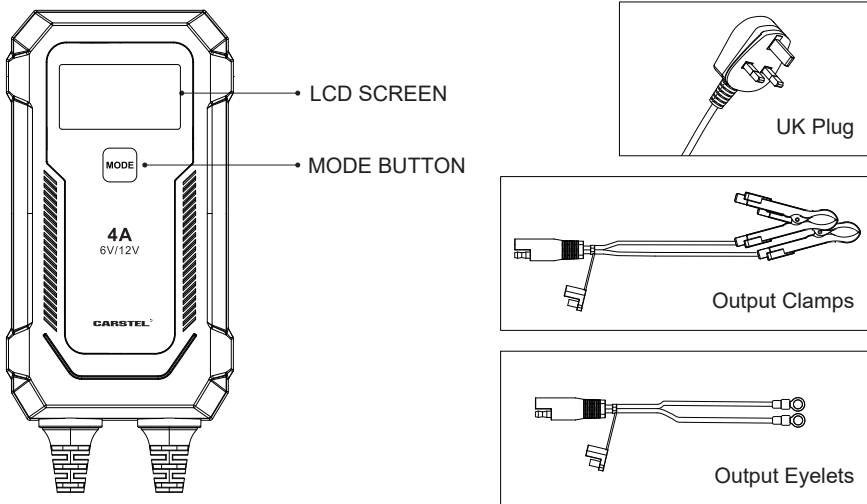
**CARSTEL®**

# **SMART CHARGER 4A**



**Model: 01.81.040**

## FEATURES



## IMPORTANT SAFETY INSTRUCTIONS

1. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
2. Working in vicinity of a battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance that each time before using your charger, you read this manual and follow the instruction exactly.
3. Always charge battery in a well-ventilated area. NEVER operate in a closed-in or restricted area without adequate ventilation.
4. To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary markings on these products and on engine.
5. When disconnecting the battery charger, pull by the plug not by the cord. Pulling on the cord may cause damage to cord or plug.
6. Unplug the charger from the mains before breaking or making the connection to the battery.
7. Do not operate charger with damaged cord or plug. Have cord replaced immediately.
8. Use the charger in door only. Do not expose it to rain.

## BATTERY CHARGING



### 1. Connecting the charger to the battery.

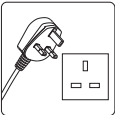
The charger's output leads have color-coded battery clips (RED-POSITIVE and BLACK-NEGATIVE). Determine which post of battery is grounded (connected) to the chassis.

#### For batteries mounted inside a vehicle.

- I . Connect the red clamp to the battery's positive pole.
- II . Connect the black clamp to the vehicle chassis remote from the fuel pipe and the battery.
- III . Connect the charger to the wall socket.

#### Some vehicles may have positively earthed batteries.

- I . Connect the black clamp to the battery's negative pole.
- II . Connect the red clamp to the vehicle chassis remote from the fuel pipe and the battery.
- III . Connect the charger to the wall socket.



2. Connect the charger to AC power socket.












3. Press **MODE** to start and select charging mode. Settings are made by pressing **MODE** and stepping forward by pressing the button one step at a time, releasing the button when the required mode is reached.



4. Stop charging at any time by pressing **MODE** to get back to standby model.

**WARNING:** When disconnecting charger, disconnect AC cord first, remove clip from vehicle chassis, and then remove clip from battery terminal. Do not charge the battery while the engine is operating.

## BATTERY TYPES AND SETTINGS

	<p>To start, select charging mode, or re-set during charging.</p>
	<p>12V Slow 2A Mode</p>
	<p>12V Slow Winter 2A Mode</p>
	<p>12V Fast 4A Mode</p>
	<p>12V Fast Winter 4A Mode</p>
<p><b>Li</b></p>	<p>12V LFP 4A Mode</p>
<p><b>6V</b></p>	<p>6V 2A Mode</p>
	<p>The battery is being charged.</p>
	<ul style="list-style-type: none"> <li>• <b>Bad Battery</b></li> </ul> <p>The battery is in bad condition and may need to be replaced.</p> <ul style="list-style-type: none"> <li>• <b>High Voltage</b></li> </ul> <p>You may choose the wrong voltage, for example, you may charging a 12V battery with 6V mode or a 24V battery with 12V mode.</p>
	<ul style="list-style-type: none"> <li>• <b>No Connection</b></li> <li>• <b>Loose Connection</b></li> <li>• <b>Reverse Polarity</b></li> </ul> <p>Please check whether clamps are connected properly.</p>
	<p>High Temperature</p>

## MEMORY FUNCTION

This charger has Memory Function. It will return to last mode you chose next time when the charger is connected.

## SPECIFICATIONS

Model No.:	01.81.040
Input	220-240V, 50Hz
Charging Mode	12V slow 2A/ 12V slow winter 2A/ 12V fast 4A/ 12V fast winter 4A/ 12V LFP 4A/ 6V 2A
Battery Types	Lead-Acid and LiFePO4 Batteries
Charging Stages	9 Step
Insulation Class	IP65
Display	LCD
Safety Protection	Over Voltage, Low Voltage, Overheat, Short Circuit, Reverse Polarity

## CARE AND MAINTENANCE

With only minimal maintenance, this Battery Charger will deliver years of dependable service. Follow these simple steps to maintain the charger in optimum condition: After each use, clean the battery charger clamps - be sure to remove any battery fluid that will cause corrosion of the copper clamps. Clean the outside case of the charger with a soft cloth and, if necessary, mild soap solution. Keep the charger cords loosely coiled during storage to prevent damage to the cords. Do not use the charger if cords or clamps have been damaged in any way. If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or qualified person in order to avoid a hazard.

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