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# SmartCharge

Smart Maintenance Battery Charger  
RSC701/RESC701

Smart Battery Charger with Protection  
RSC704/RESC704

Advanced Smart Charge  
RSC706/RESC706



(F) Mode d'emploi

(D) Bedienungsanleitung

(I) Istruzioni

(E) Instrucciones

(P) Instruções

(DK) Instruktøner

(NL) Instructies

(S) Instruktøner

(FIN) Ohjeet

(N) Instrukser

(PL) Instrukcje

(CZ) Pokyny

(RO) Instrucțiuni

(H) Útmutató

(UA) вказівки

(RU) Инструкции

## RESC701

[www.ringautomotive.com/uk/products/Cars/Battery+Care/SmartChargers+European+Specification/RESC701](http://www.ringautomotive.com/uk/products/Cars/Battery+Care/SmartChargers+European+Specification/RESC701)

## RESC704

[www.ringautomotive.com/uk/products/Cars/Battery+Care/SmartChargers+European+Specification/RESC704](http://www.ringautomotive.com/uk/products/Cars/Battery+Care/SmartChargers+European+Specification/RESC704)

## RESC706

[www.ringautomotive.com/uk/products/Cars/Battery+Care/SmartChargers+European+Specification/RESC706](http://www.ringautomotive.com/uk/products/Cars/Battery+Care/SmartChargers+European+Specification/RESC706)

## INSTRUCTIONS

Retain these instructions for future reference

Ensure area is well ventilated



[www.ringautomotive.com](http://www.ringautomotive.com)



# Safety

**Risk of explosion** - Only connect the battery leads when the mains supply is disconnected.

Explosive gases may escape from the battery during the charging process. Prevent flames and sparks and provide adequate ventilation during charging

Indoor use only.

Unplug the charger from the mains before breaking or making the connection to the battery.

Not suitable for use with non-rechargeable batteries.

In addition to the battery types and capacity detailed in the specifications, the charger is suitable for the following only:

- Charging only a single battery at any one time
- Charging rechargeable lead acid, calcium, gel, START/STOP, AGM and EFB batteries with 6 cells

Do not place the charger on top of the battery during the charging process.

The Ring Smart Charger automatically adjusts the charge rate applied as the battery charges. With the battery fully charged the charging process stops, as the battery naturally discharges further charge is applied until the battery is again fully charged. This is an ongoing process to ensure a safe connection for an indefinite period.

The supply cord cannot be replaced. If the cord is damaged the Smart Charger should be disposed of.

The Smart Charger is not for use by a person (including children) with reduced physical, sensory or medical capabilities or lack of experience or knowledge.

The charger contains no serviceable replaceable parts.

## Smart Maintenance Battery Charger

### Contents



• AC Plug



• Instructions



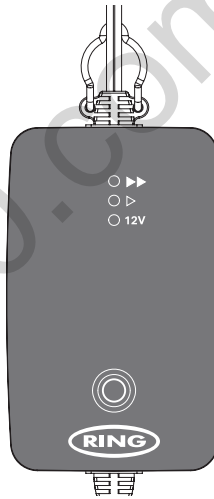
• Battery clips



• Ring terminals

## Smart Battery Charger with Protection

### Contents



• AC Plug



• Instructions



• Battery clips



• Ring terminals

## Advanced Smart Charger

### Contents



• AC Plug



• Instructions



• Battery clips



• Ring terminals

# How to Charge Your Battery

1. With the charger unplugged from the mains, connect the clips to the battery as detailed below

## For batteries inside the vehicle

- Attach the red (+) battery clip to the red (+) terminal on the battery
- Attach the black (-) battery clip to a bolt or bracket on the engine block, away from the battery and fuel lines

## For batteries outside the vehicle

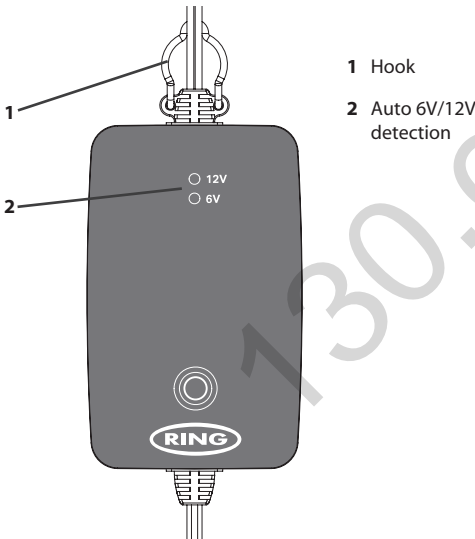
- Attach the red (+) battery clip to the red (+) terminal on the battery
- Attach the black (-) battery clip to the black (-) terminal on the battery

**If the battery charger shows as solid red, the clips have connected to the wrong terminals and need to be swapped over.**

2. For the smart charger plus select the "start/stop" setting if your vehicle uses this technology.
3. With a correct connection a solid green light will show. Plug the battery charger into the mains and the charger will automatically select the best program to use.
4. To select a different charging mode, press the charging mode button until the desired mode is selected.

## Smart Maintenance Battery Charger

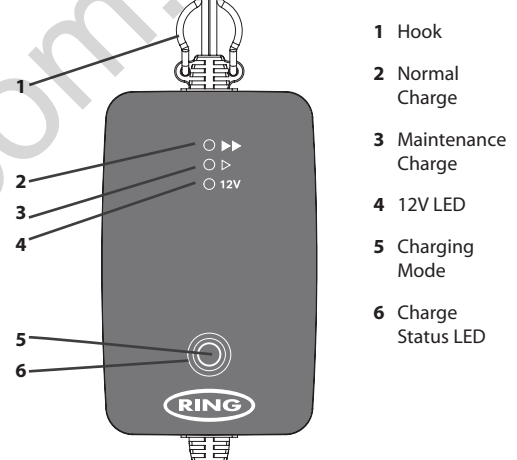
### Features



- 1 Hook
- 2 Auto 6V/12V detection

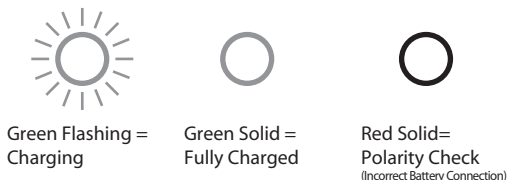
## Smart Battery Charger with Protection

### Features



- 1 Hook
- 2 Normal Charge
- 3 Maintenance Charge
- 4 12V LED
- 5 Charging Mode
- 6 Charge Status LED

### Charge Status Led



### Charge Status Led



# How to Charge Your Battery

1. With the charger unplugged from the mains, connect the clips to the battery as detailed below

## For batteries inside the vehicle

- Attach the red (+) battery clip to the red (+) terminal on the battery
- Attach the black (-) battery clip to a bolt or bracket on the engine block, away from the battery and fuel lines

## For batteries outside the vehicle

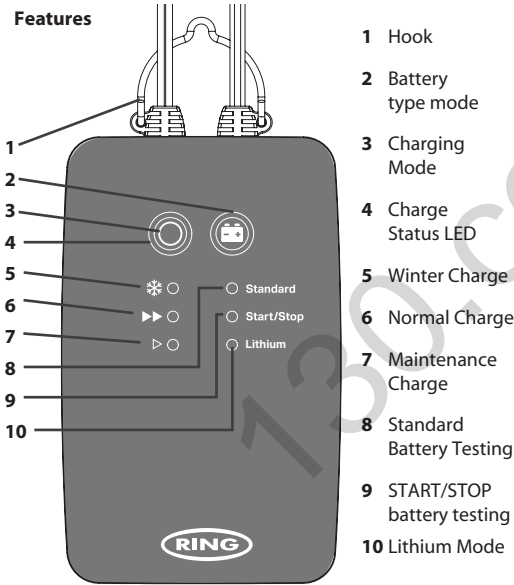
- Attach the red (+) battery clip to the red (+) terminal on the battery
- Attach the black (-) battery clip to the black (-) terminal on the battery

**If the battery charger shows as solid red, the clips have connected to the wrong terminals and need to be swapped over.**

2. For the smart charger plus select the "start/stop" setting if your vehicle uses this technology.
3. With a correct connection a solid green light will show. Plug the battery charger into the mains and the charger will automatically select the best program to use.
4. To select a different charging mode, press the charging mode button until the desired mode is selected.

## Advanced Smart Charger

### Features



- 1 Hook
- 2 Battery type mode
- 3 Charging Mode
- 4 Charge Status LED
- 5 Winter Charge
- 6 Normal Charge
- 7 Maintenance Charge
- 8 Standard Battery Testing
- 9 START/STOP battery testing
- 10 Lithium Mode

▷ ○	Maintenance Charge
▶▶ ○	Normal Charge
❄ ○	Winter Charge
○ Standard	Standard Battery
○ Start/Stop	START/STOP
○ Lithium	Lithium Mode

### Charge Status Led



Green Flashing = Charging



Green Solid = Fully Charged



Red Solid = Polarity Check  
(Incorrect Battery Connection)



# How to Charge Your Battery

## Smart Maintenance Battery Charger

### Charging Modes

Mode	Description	Max Battery Capacity (Ah)
<input type="radio"/> 12V <b>Maintenance Charge</b>	14.4V / 0.8A	20Ah (Charging)
<input type="radio"/> 6V	7.2V / 0.8A	60Ah (Charging)

## Smart Battery Charger with Protection

### Charging Modes

Mode	Description	Max Battery Capacity (Ah)
<input type="radio"/> <b>Maintenance Charge</b>	14.4V / 0.8A - For use on smaller batteries	20Ah (Charging)
<input type="radio"/> <b>Normal Charge</b>	14.4V / 4.0A	90Ah (Charging) 140Ah (Maintenance mode)

## Advanced Smart Charger

### Charging Modes

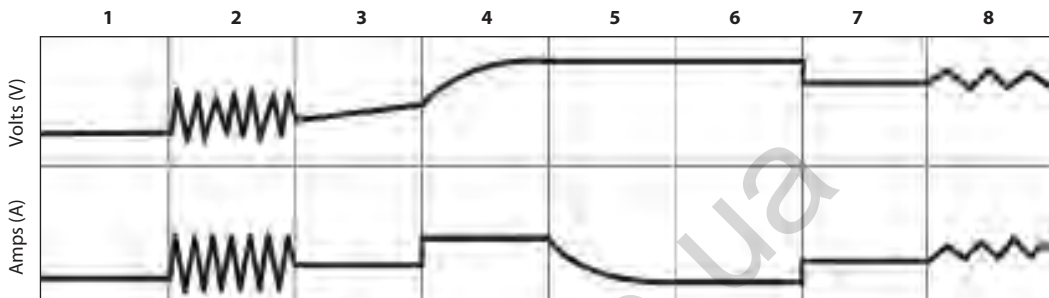
Mode	Description	Max Battery Capacity (Ah)
<input type="radio"/> <b>Maintenance Charge</b>	14.4V / 0.8A - For use on smaller batteries	20Ah (Charging)
<input type="radio"/> <b>Normal Charge</b>	14.4V / 6.0A	110Ah (Charging) 160Ah (Maintenance mode)
<input type="radio"/> Standard <b>Standard Battery</b>	14.4V / 0.8A - 6.0A	110Ah (Charging) 160Ah (Maintenance mode)
<input type="radio"/> Start/Stop <b>START / STOP</b>	14.6V / 1.0A - 6.0A	20-110Ah (Charging) 110-160Ah (Maintenance mode)
<input type="radio"/> ❄️ <b>Winter Charge</b>	14.8V / 1.0A - 6.0A - For charging batteries at low temperature: -20° to +5°	20-110Ah (Charging) 110-160Ah (Maintenance mode)
<input type="radio"/> Lithium <b>Lithium Battery</b>	14.4V / 3.5A	110Ah (Charging) 160Ah (Maintenance mode)

## Charging states

The Ring Smart Chargers are all multi-stage battery chargers:

**The Smart Maintenance and Smart Battery Charger with Protection are 3 stage chargers - stage 3, 4 and 8.**

**All 8 stages are applicable to the Advanced Smart Charger.**



1. **Test & Analysis** – Determines repair or charging modes
2. **Desulphation** – Repair stage to increase performance and prolong battery life
3. **Soft Start** – Slow build up of the charging current to protect the battery
4. **Bulk Charging** – Charges the battery up to 80% capacity
5. **Absorption** – Slows down the charge rate for batter power gain
6. **Test** – Identifies if the battery is fully charged or additional battery repair required
7. **Recondition** – If the test stage identifies if more repair is needed, the RECONDITION stage further boosts the battery
8. **Float** – Allows long term connection to keep the battery fully charged





## Technical Specifications


	Smart Maintenance Battery Charger	Smart Battery Charger with Protection	Advanced Smart Charger
<b>Part Number</b>	RSC701 / RESC701	RSC704 / RESC704	RSC706 / RESC706
<b>Input AC Voltage</b>	220-240VAC, 50Hz	220-240VAC, 50Hz	220-240VAC, 50Hz
<b>Charging Voltage</b>	14.4V - Std Vehicle	14.4V - Std Vehicle	14.4V - Std Vehicle 14.6V - START / STOP Vehicle 14.5V - Lithium mode
<b>Types of Battery</b>	Lead acid, Gel, Calcium, AGM, EFB, START/STOP	Lead acid, Gel, Calcium, AGM, EFB, START/STOP	Lead acid, Gel, Calcium, AGM, EFB, START/STOP, Lithium (LiFePO4)
<b>Dimensions</b>	128(L) x 80(W) x 23(H)mm	128(L) x 80(W) x 23(H)mm	167(L) x 104(W) x 37(H)mm
<b>Weight</b>	0.5KG/PC	0.5KG/PC	0.74KG/PC
<b>Protection</b>	IP65	IP65	IP65

### CAUTION!

Consult your vehicle handbook for vehicle specific guidance on hybrid vehicles. This product is not suitable for charging high voltage systems. All electrical equipment should be monitored. Before charging read the enclosed instruction manual carefully. Only one battery can be charged at a time. Do not allow children access to this equipment. Do not attempt to start a vehicle with the charger connected. This charger contains no user serviceable parts - do not dismantle or attempt to use if damaged.



### Information on Waste Disposal for Consumers of Electrical & Electronic Equipment

 This mark on a product and/or accompanying documents indicates that when it is to be disposed of, it must be treated as Waste Electrical & Electronic Equipment (WEEE).  
Any WEEE marked waste products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used.

For proper treatment, recovery and recycling; please take all WEEE marked waste to your Local Authority Civic waste site, where it will be accepted free of charge.

If all consumers dispose of Waste Electrical & Electronic Equipment correctly, they will be helping to save valuable resources and preventing any potential negative effects upon human health and the environment, of any hazardous materials that the waste may contain.

### Please Recycle Your Spent Batteries

Batteries should not be disposed of in unsorted municipal waste, but separately collected to facilitate the correct treatment and recycling of the substances they contain. The recycling of batteries ensures the recovery of these valuable materials and prevents any potentially harmful effects upon both the environment and human health.

Please contribute to battery recycling by segregating all spent batteries and actively participating in their collection and recycling. Various battery collection schemes will be in operation in different areas of the country. However, battery collection bins will be available at retail stores that sell batteries as well as at schools, libraries and other public buildings.

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