

# Clarke®



## LEAD ACID BATTERY CHARGER

MODEL NO: LA4 & LA6

PART NO: 6266300 & 6266305

## OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL1122 Rev 1

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## INTRODUCTION

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Thank you for purchasing this CLARKE Battery Charger.

Please read this manual thoroughly, before attempting to operate, and carefully follow all instructions given.

It is vitally important that ALL precautions are taken, as specified, which will not only provide protection for yourself and that of others around you, but will also ensure that the Battery Charger will give you long and satisfactory service.

**This Battery Charger is limited to use with 12V Lead Acid Batteries ONLY.  
DO NOT attempt to charge other types of battery**

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## GUARANTEE

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This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights

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## ENVIRONMENTAL RECYCLING POLICY

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Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

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## SAFETY PRECAUTIONS

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- **IMPORTANT: ALWAYS** disconnect the battery from the vehicle **BEFORE** connecting the charger leads. This is to prevent damage being caused to the vehicles electronic systems.
- This battery charger is designed for indoor use **ONLY**. Do not use outdoors, exposed to the elements.
- This battery charger is for charging 12V Lead-Acid type batteries only. **DO NOT** use for any other type of battery, or supply power to low voltage electrical systems.
- **DO NOT** attempt to charge a battery with a capacity exceeding that indicated in the 'Specifications'.
- **DO NOT** operate the charger if any of the cables are damaged. Consult your Clarke dealer for repair or replacement of the parts.
- **DO NOT** operate the charger if the case is damaged. Consult your Clarke dealer for inspection and repair.
- **DO NOT** disassemble the charger, incorrect reassembly may result in electric shock or fire.
- Ensure the battery posts and battery clamps are perfectly clean before use.
- Connect the battery clamps to the battery terminals before plugging the charger in to the mains power supply.
- Disconnect from the mains power supply before making or breaking connections to the battery.
- Make sure the battery is topped up with distilled water, (where applicable), to its proper level, before connecting the charger.
- Unscrew the battery filler caps fully, (where applicable), and leave them loose for the duration of charge, to ensure that gases are allowed to escape.

**NOTE: ALWAYS** clean around the filler caps thoroughly before unscrewing, to ensure that no dirt can enter the battery cell. Ensure the breather holes, in the caps, are perfectly clear before screwing in again.

- When charging is complete, disconnect the negative cable first and then the positive cable.
- Always place the charger in an environment which is
  - well ventilated
  - out of the reach of children
  - not exposed to direct sunlight or heat source

- not exposed to rain or other adverse conditions
- away from water / moisture, oil and grease
- away from explosive gases, flames, and sparks
- away from any flammable substance

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## SPECIFICATIONS

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Model	LA4	LA6
Input Voltage	230V @ ~50Hz	
Battery Voltage:	12 V	
IP Rating:	IP20	
Minimum battery size: (Ah/CCA)	10Ah	12Ah
Maximum battery size: (Ah/CCA)	60Ah 60Ah	
Operating Temperature Range: (°C)	-10 to 45°C	
Compatible battery types:	Lead acid only	
Dimensions (D x W x H)	95 x 172 x 177 mm	97 x 170 x 177 mm
Weight (kg)	1.35	1.7
Part Number	6266300	6266305

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# ELECTRICAL CONNECTIONS

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## THIS APPLIANCE IS DOUBLE INSULATED

This appliance is fitted with a 13 amp, BS 1363 plug which should be connected to a standard 230 VAC (50Hz) electrical supply. If the plug is replaced, the replacement must be to the same specification and wired in accordance with the following code:

Blue - Neutral

Brown - Live

As the colours of the flexible cord of this appliance may not correspond with the coloured markings identifying terminals in your plug proceed as follows:

- Connect the **BROWN** wire to terminal marked with a letter "L" or coloured **RED**
- Connect the **BLUE** wire to terminal marked with a letter "N" or coloured **BLACK**

If in doubt, consult a qualified electrician.

In the event a moulded plug is fitted, and is subsequently cut from the electric cable, the replacement plug **MUST** be an approved 13 amp, BS 1363 plug and wired in accordance with the above instructions. Additionally, please note:

- The discarded plug must be thrown away as there is a danger of electric shock if it is subsequently inserted into a socket outlet.
- Never use the plug without the fuse cover fitted.
- Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
- Replacement fuse covers can be obtained from your local dealer or most electrical stockists.

## FUSE REPLACEMENT

The fuse in the plug must be replaced with one of the same rating (13 amps) and this replacement must be ASTA or BSI approved to BS1362.

## EXTENSION CABLES

If an extension cable is used, the conductors in the cable **MUST** be a minimum 1.5mm<sup>2</sup>. Additionally, ensure the cable is completely unwound from the drum.

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## USING THE CHARGER

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Ensure the battery to be charged is rated at 12V and that it is not damaged or in an overly discharged state, otherwise it may draw too much current from the charger and damage may result.

### DISCONNECT THE BATTERY FROM THE VEHICLE

If the battery is still in the vehicle, ensure the battery terminals are disconnected from the vehicles electrical system. Disconnect the negative (EARTH) terminal first, followed by the positive terminal. (When reconnecting, do so in reverse order).

### CONNECT THE CHARGER TO THE BATTERY

1. Connect the red battery clamp to the positive (+ve) battery terminal.
2. Connect the black clamp to the negative (-ve) terminal,
  - Make sure that both connections are secure and NOT touching each other.

### CHARGE THE BATTERY

3. Plug in the charger and switch ON at the mains supply.
4. Set the ON/OFF switch to ON to commence charging.

### WHEN CHARGING IS COMPLETE

5. When charging is complete (charger display needle goes fully to the left), set the ON/OFF switch to OFF.
  - Damage to the battery could occur should the charger be left connected for a prolonged period.
6. Disconnect the charger from the battery.
  - Remove the black clamp from the negative (-ve) terminal first.
  - Then remove the red clamp from the positive (+ve) terminal.
7. Reconnect the battery to the vehicle.

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## **SAFETY FEATURES**

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Whenever a fault condition exists, the circuitry automatically disengages the normal operation of the charger.

### **THERMAL OVERLOAD**

The thermal overload protector provides a safeguard against an excessively large charging current being drawn by the battery for prolonged periods.

### **SHORT CIRCUIT**

The charger is fully protected against short circuits, i.e. the clamps coming into contact with each other (directly or indirectly) when the unit is switched ON. If a short circuit does occur, the fuse on the bottom of the unit may 'blow' and need replacing before using the charger again. The fuse required is a 7.5A blade fuse.

### **REVERSE POLARITY**

The charger is fully protected against the possibility of the clamps being incorrectly connected.

# DECLARATION OF CONFORMITY



Hemnell Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

**This is an important document and should be retained.**

We hereby declare that this product(s) complies with the following statutory requirement(s):

*Electromagnetic Compatibility Regulations 2016*  
*Electrical Equipment (Safety) regulations 2016*  
*The Restriction of the Use of Hazardous Substances in Electrical and Electronic Equipment Regulations 2012*

The following standards have been applied to the product(s):

EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013+A1:2019,  
EN 60335-1:2012+A11:2014+A13:2017, EN 60335-2-29:2004+A2:2010, EN 62233:2008,  
IEC 62321-2:2013, IEC 62321-3-1:2013, IEC 62321-4:2013+A1:2017, IEC 62321-5:2013,  
IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2022

**Product Description:** Lead Acid Battery Charger  
**Model number(s):** LA4 & LA6  
**Serial / batch Number:** N/A  
**Date of issue:** 15/11/2022  
**Signed:**

J.A. Clarke  
Director



Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

## DECLARATION OF CONFORMITY

**This is an important document and should be retained.**

We hereby declare that this product(s) complies with the following directive(s):

*2014/30/EU Electromagnetic Compatibility Directive*  
*2014/35/EU Low Voltage Directive*  
*2011/65/EU Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations*

The following standards have been applied to the product(s):

EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013+A1:2019,  
EN 60335-1:2012+A11:2014+A13:2017, EN 60335-2-29:2004+A2:2010, EN 62233:2008,  
IEC 62321-2:2013, IEC 62321-3-1:2013, IEC 62321-4:2013+A1:2017, IEC 62321-5:2013,  
IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2013

**Product Description:** Lead Acid Battery Charger  
**Model number(s):** LA4 & LA6  
**Serial / batch Number:** N/A  
**Date of issue:** 15/11/2022  
**Signed:**

J.A. Clarke  
Director