Clarke®

6V/12V INTELLIGENT BATTERY CHARGER

MODEL NO: IBC5, IBC6, IBC10

PART NO: 6266330, 6266340, 6266345

OPERATION & MAINTENANCE INSTRUCTIONS

UK CA | CE

ORIGINAL INSTRUCTIONS

DL0623

INTRODUCTION

Thank you for purchasing this CLARKE Battery Charger.

Please read this manual thoroughly, before attempting to operate this product 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.

GUARANTEE

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.

ENVIRONMENTAL RECYCLING POLICY

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.

SPECIFICATIONS

Model Number	**IBC5**	**IBC6**	**IBC10**
Input Voltage / Current	230 V, 50Hz		
Battery Charging Voltages	6V & 12V		
Power	70W Max.	105W Max.	160W Max.
Charging Current	6V: 2.03A 12V: 4A	6V: 1.979A 12V: 6A	6V: 2.025A 12V: 10A
Charging Steps	10 Steps		
Charging Battery Size	4Ah up to 120Ah	4Ah up to 150Ah	4Ah up to 200Ah
IP Rating	IP65		
Operating Temperature Range	-20°C to 40°C		
Dimensions (H x W x D)	50mm x 225mm x 90mm	55mm x 281mm x 105mm	
Power Cable Length	1.5m		
Charging Clamp Cable Length	1.18m + 40cm		
Weight	500g	750g	900g

SAFETY PRECAUTIONS

WARNING: ALWAYS SWITCH OFF THE CHARGER WHEN CONNECTING OR DISCONNECTING LEADS TO AVOID SPARKING AS HIGHLY INFLAMMABLE HYDROGEN GAS CAN BE RELEASED IN THE PROCESS OF BATTERY CHARGING

PLEASE READ BEFORE USING THIS UNIT

1. Batteries can generate explosive gases during normal operation. **ALWAYS** use in well ventilated area.
2. **DO NOT** smoke, strike a match or cause a spark in the vicinity of the battery or engine. Avoid explosive gas, flames and sparks.
3. Remove all personal jewellery, such as rings, bracelets, necklaces and watches while working with a vehicle battery. These items may produce a short circuit and could cause severe burns.
4. Be extra cautious to reduce the risk of dropping a metal tool onto the battery. It may spark or short circuit the battery or other electrical hardware which may cause an explosion or fire.
5. Wear complete eye protection, hand and clothing protection. **AVOID** touching eyes while working near a battery.
6. Study all battery manufacturers specific precautions, such as removing or not removing cell caps while charging and recommended rates of charge.
7. Clean battery terminals before connection with the charger. Be careful to keep corrosion from coming in to contact with eyes.
8. When it is necessary to remove the battery from the vehicle to charge, always remove grounded terminal from the battery first. Make sure all accessories in the vehicle are switched off in order to prevent an arc.
9. This charger is **NOT** intended to charge dry cell batteries. Charging dry cell batteries may cause the battery to burst and cause injury to person or property.
10. **NEVER** charge a frozen, damaged, leaking or non rechargeable battery.
11. If battery electrolyte contacts skin or clothing, wash immediately with soap and water. If electrolyte enters your eye, immediately flood eye with running clean cold water for at least 15 minutes and seek medical attention immediately.
12. **DO NOT** place the charger in the engine compartment, near moving parts or near the battery. Place as far away from them as the cable permits.

13. **NEVER** place the charger directly above the battery being charged, gases or fluids from the battery will corrode and/or damage the charger.
14. **DO NOT** cover the charger while charging.
15. **DO NOT** expose to rain or wet conditions.
16. Connect and disconnect the DC output connections only after disconnecting the charger from the mains power supply.
17. Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock or injury to persons.
18. **DO NOT** overcharge batteries by selecting the wrong charge mode.
19. To reduce the risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting charger from mains power supply.
20. To reduce risk of electric shock, unplug charger from mains power supply before attempting any maintenance or cleaning.
21. Operate with caution if the charger has received a direct hit of force or been dropped. Have it checked and repaired if damaged.
22. **NEVER** attempt any repairs yourself. If you have a problem with your charger contact your local CLARKE dealer or contact service@clarkeinternational.com
23. When charging is complete, ensure that the vehicle battery leads are secured to the proper terminals which should be clean, and lightly smeared with petroleum jelly to prevent corrosion. Finally, re-check the electrolyte level.

SAFETY SYMBOLS

	Before Use, Read The Instructions Fully		For Indoor Use Only
	Class II Appliance		Wear Eye Protection
	Wear a Protective Mask		Wear Protective Gloves

ELECTRICAL CONNECTIONS

WARNING! READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

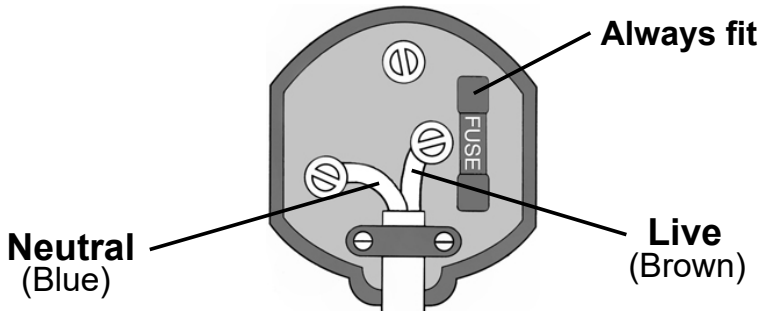
This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The **Blue** wire must be connected to the terminal marked **N** or coloured **Black**.
- The **Brown** wire must be connected to the terminal marked **L** or coloured **Red**.

Plug must be BS1363/A approved.



Ensure that the outer sheath of the cable is firmly held by the clamp

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in any doubt, consult a qualified electrician. **DO NOT** attempt any repairs yourself.

This symbol indicates that this is a Class II product, and does not require an earth connection.

OVERVIEW

1	Power Cable	6	Charging Clamp Positive (Red)
2	Charging Cable	7	Charging Clamp Negative (Black)
3	Battery Charger Unit	8	15Amp Fuse
4	LCD Display Screen	9	Charging Ring Terminal Positive (Red)
5	Mode Button	10	Charging Ring Terminal Negative (Black)

NOTE: The charger comes with crocodile clamps for clamping onto the battery terminals and vehicle bodywork, and ring terminal connectors for direct connection to the battery terminals. These can be changed depending on the type of vehicle battery and terminals under charge.

PREPARATION

1. It may be necessary to remove the battery from a vehicle to charge it.
   - Always remove the grounded terminal from the battery first.
   - Ensure all accessories in the vehicle are switched off to prevent sparking.
2. Clean the battery terminals. Be careful to keep any corrosive matter from coming in contact with eyes. If corrosive matter enters your eye, immediately flood eye with running clean cold water for at least 15 minutes and seek medical attention immediately.
3. If the battery can be topped up, add distilled water to each cell until the battery acid reaches the level specified by the battery manufacturer. This helps remove unwanted gas from the cell. **DO NOT** overfill. For a battery without cell caps, follow the manufacturer's instructions.
4. Study all the battery manufacturer's specified precautions: for example, removing or not removing cell caps while being charged and recommended rates of charge.Refer to the vehicle manual and battery rating plate to find the voltage of the battery and make sure that the output is set to the correct voltage.
5. If the charger has adjustable charge rate, charge the battery initially at the lowest rate.

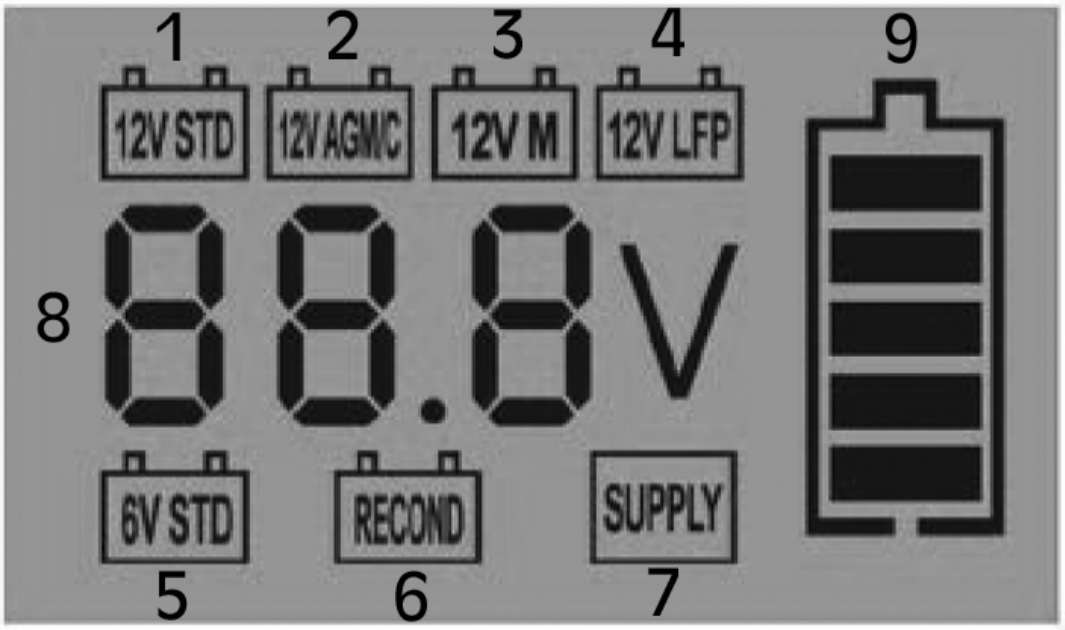
CHARGER LOCATION

1. **DO NOT** position the charger above the battery during the charging procedure. Gases from the battery may corrode and damage the charger.
2. **DO NOT** let battery acid drip on the charger when reading a hydrometer for specific gravity or when you fill the battery.
3. **DO NOT** use the charger in an enclosed space with reduced airflow and keep as far away from the battery as possible.

CORRECT USE

The charger is designed to charge all types of 6V &12V lead-acid batteries with a capacity of 4 - 200Ah (refer to page 3 for capacity of each model). The charger has been optimised to maintain the battery of your motorcycle or car when it is not being used over longer periods of time, for example over the winter. The charger is designed to charge 12V LiFePO4, Gel, AGM and standard lead acid batteries.**DO NOT** use this product to charge other type of batteries like Nickel Cadmium (NiCad), Nickel-Metal Hydride (Ni-MH), Lithium-Ion, Dry Cell etc, as this may damage the charger and involves the risk of short circuits, fire, electric shock, etc.

BATTERY CHARGER DISPLAY INDICATORS



1	Charging a 12V Standard Lead Acid Battery, **IBC5**: Up to 14.4V DC, Max: 4A **IBC6**: Up to 14.4V DC, Max: 6A **IBC10**: Up to 14.4V DC, Max: 10A	6	Charging a 12V Deeply Discharged Batteries, **IBC5 & IBC6**: Up to 16.5V DC/1.5A **IBC10**: Up to 16.5V DC/2.5A
2	Charging a 12V AGM Battery or Charging in Winter Mode with an Ambient Temperature of -20°C to +5°C, **IBC5**: Up to 14.7V DC, Max: 4A **IBC6**: Up to 14.7V DC, Max: 6A **IBC10**: Up to 14.7V DC, Max: 10A	7	Supply Mode. **IBC5**: Works as a 12V DC/3A Power Supply **IBC6**: Works as a 12V DC/5A Power Supply **IBC10**: Works as a 12V DC/8A Power Supply
3	Charging a 12V Battery for Maintenance Purpose, **IBC5 & IBC6**: Up to 14.4V DC/1A **IBC10**: Up to 14.4V DC/2A	8	Battery Voltage Indicator, Accurate to 0.1V. Faulty Battery: BAD, Fully Charged: FUL, Connected with Reverse Polarity or Short Circuit at the Clamps: ERR
4	Charging a 12V LiFePO4 Battery, **IBC5**: Up to 14.6V DC/4A **IBC6**: Up to 14.6V DC/6A **IBC10**: Up to 14.6V DC/10A	9	Charging Indicator. Indicates the Charging Process, Each Bar Represents 20%
5	Suitable for Charging 6V Small Batteries, **All Models**: Up to 7.2V DC/2A		

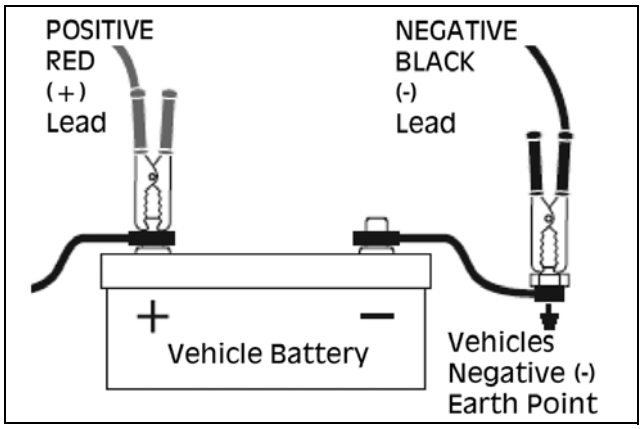
OPERATION

CONNECTING TO THE BATTERY

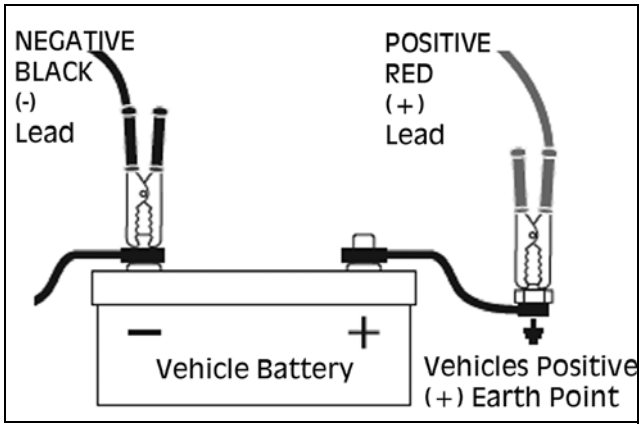
To avoid sparks which could cause an explosion or fire, the mains supply should always be disconnected before making or breaking battery connections. Connect the battery clips or ring terminals to the battery in the following order:

FOR VEHICLES WITH THE BATTERY STILL INSTALLED

1. Identify the polarity of the battery terminals. The positive battery terminal is typically marked by the letters or symbols (POS,P,+). The negative battery terminal is typically marked by the letters or symbols (NEG,N,-).
2. **DO NOT** make any connections to the carburetor, fuel lines or thin metal parts.
3. Identify if you have a negative or positive grounded vehicle. This can be done by identifying which battery post (POS or NEG) is connected to the vehicle chassis.
4. For a negative grounded vehicle (most common): Connect the RED POSITIVE battery clamp first to the positive battery terminal, then connect the BLACK NEGATIVE battery clamp to the negative battery terminal or vehicle chassis.



5. For a positive grounded vehicle (very uncommon): Connect the BLACK NEGATIVE battery clamp first to the negative battery terminal, then connect the RED POSITIVE battery clamp to the positive battery terminal or vehicle chassis.



6. When disconnecting, disconnect in the reverse sequence of points 4 or 5, depending if your vehicle is negatively or positively grounded.

FOR BATTERIES REMOVED FROM THE VEHICLE

1. Connect the BLACK NEGATIVE charging lead (Clip or Ring Terminal) to the NEGATIVE post of the battery.
2. Connect the RED POSITIVE charging lead (Clip or Ring Terminal) to the POSITIVE post of the battery
3. After connecting the clips, rotate them slightly so as to remove any dirt or oxidation, thus ensuring a good connection.
4. A marine (boat) battery must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.

SAFETY FEATURES

This battery charger is fitted with the following safety features: Short Circuit Protection, Overload Protection, Reverse Polarity Protection, Overcharging Protection and Over Temperature Protection.

CHARGING

1. First make sure your battery is a 6V or 12V battery. **DO NOT** charge batteries with different operating voltages.
2. Connect the battery charger to the mains power supply.
3. Select the appropriate charging mode for your battery with the 'MODE' button.
   - Press 'MODE' button to select among the 4 normal charging modes: 12C STD, 12V AGM, 12V M, 12V LFP.
   - Press 'MODE' button to select between the 3 additional functions: 6V STD, RECOND, SUPPLY
   - Long press the 'MODE' button for 5 seconds to switch between the normal and additional functions.
4. Then connect the charger to the battery with the correct polarity, see page 10. If connected with the reverse polarity or a short circuit occurs, an ERR error code will light up on the display, see page 15.
5. The battery charger is equipped with an automatic memory function, i.e whenever the AC supply is connected, it starts in the last selected mode.
6. After the charging process, disconnect the charger from the mains power supply before removing the negative terminal and then the positive terminal from the battery.

CHARGING TIME

A partially charged battery will take less time to charge than a fully discharged battery. The approximate charging time for a battery cab be calculated using the following equation: Charging Time (Hours) = Battery Capacity in Ah divided by Amp. (Charging Current).

OUTPUT: 6V 2A		OUTPUT: 12V 4A	
BATTERY SIZE	APPROXIMATE TIME TO CHARGE	BATTERY SIZE	APPROXIMATE TIME TO CHARGE
6 Ah	3 Hours	32 Ah	8 Hours
12 Ah	6 Hours	48 Ah	12 Hours
15 Ah	7 Hours	64 Ah	16 Hours
21 Ah	10.5 Hours	100 Ah	25 Hours
24 Ah	12 Hours	128 Ah	32 Hours
30 Ah	15 Hours	150 Ah	37 Hours

OUTPUT: 12V 6A		OUTPUT: 12V 10A	
BATTERY SIZE	APPROXIMATE TIME TO CHARGE	BATTERY SIZE	APPROXIMATE TIME TO CHARGE
32 Ah	5.3 Hours	32 Ah	3.2 Hours
48 Ah	8 Hours	48 Ah	4.8 Hours
64 Ah	10.6 Hours	64 Ah	6.4 Hours
100 Ah	16.6 Hours	100 Ah	10 Hours
128 Ah	21.3 Hours	128 Ah	13 Hours
150 Ah	25 Hours	150 Ah	15 Hours

CARE & MAINTANENCE

This battery charger requires minimal maintenance. As with any appliance or tool, a few common sense rules will prolong its working life.

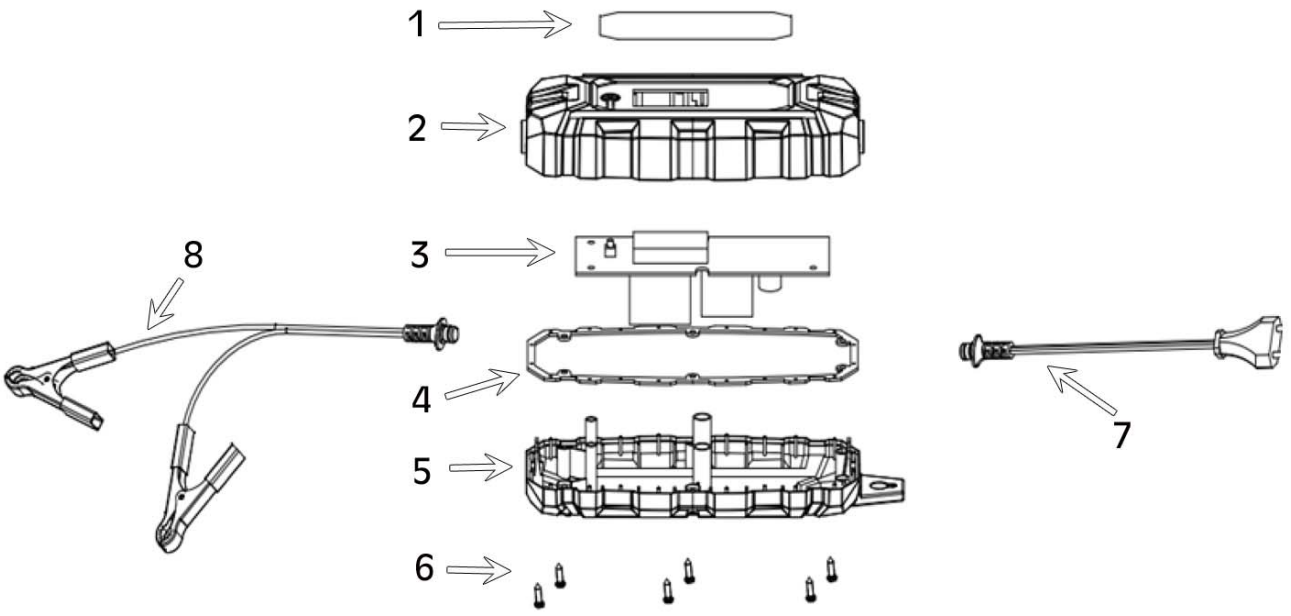
WARNING: ALWAYS BE SURE THE CHARGER IS UNPLUGGED BEFORE PERFORMING ANY MAINTENANCE OR CLEANING. ANY REPAIRS MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN.

1. Wind up the leads when not in use. Examine the leads at regular intervals for damage and have them replaced if necessary.
2. Store in a clean, dry place.
3. Clean the case and leads if necessary with a moist cloth and clean any corrosion from the clamps with a solution of water and baking soda.

TROUBLESHOOTING

Error Code	Condition	Possible Cause	Solution
ERR	The charge does not begin.	The battery clamps are connected with reverse polarity.	Disconnect and reconnect correctly.
		The battery voltage is not matched with the selected mode.	Confirm that the battery voltage is matched with the mode.
BAD	The charge does not begin.	The battery is defective.	Replace the battery.
LO	The charge voltage is too low.	The battery is deep discharged or defective.	Charge over 12 hour period first, if the battery is back to a normal voltage, its regenerated.
	Battery is not full charged after 24 hour charge.	The charge current is too low.	Select a higher charge rate.
	The battery voltage rising fast.	The charge current is too high.	Select a lower charge rate.

PARTS DIAGRAM



PARTS LIST

No	Description	No	Description
1	Front Label	5	Lower Cover
2	Top Cover	6	Screws (x6)
3	PCB	7	Power Cable
4	Seal Ring	8	Charging Cable

DECLARATION OF CONFORMITY - IBC5

UK CA

Clarke® INTERNATIONAL

Hemnall 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 legislation:

The Electromagnetic Compatibility Regulations 2016

The Electrical Equipment (Safety) Regulations 2016

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

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

EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, EN IEC 60335-2-29:2021+A1:2021, EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021, EN 6233:2008+AC:2008, IEC 62321-3-1:2013, IEC 62321-5:2013, IEC 62321-6:2015, EN 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: 2023

Product Description: Intelligent Battery Charger 4A 6/12V

Model Number(s): IBC5

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 04/05/2023

Signed: .....

J.A Clarke

Director

CE

Clarke® INTERNATIONAL

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 legislation:

2014/30/EU Electromagnetic Compatibility Directive

2014/35/EU Low Voltage Directive

2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

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The CE mark was first applied in: 2023

Product Description: Intelligent Battery Charger 4A 6/12V

Model Number(s): IBC5

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 04/05/2023

Signed: .....

J.A Clarke

Director

DECLARATION OF CONFORMITY - IBC6

UK CA

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex, CM16 4LG

DECLARATION OF CONFORMITY

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The UKCA mark was first applied in: 2023

Product Description: Intelligent Battery Charger 6A 6/12V

Model Number(s): IBC6

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 04/05/2023

Signed:

J.A Clarke

Director

CE

Clarke® INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

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Product Description: Intelligent Battery Charger 6A 6/12V

Model Number(s): IBC6

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 04/05/2023

Signed:

J.A Clarke

Director

DECLARATION OF CONFORMITY - IBC10

UK CA

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Hemnall Street, Epping, Essex, CM16 4LG

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Product Description: Intelligent Battery Charger 10A 6/12V

Model Number(s): IBC10

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 04/05/2023

Signed: .....

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Director

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Model Number(s): IBC10

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 04/05/2023

Signed: .....

J.A Clarke

Director

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need

WELDERS
Mig, Arc, Tig and Spot.
From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, cordless drill sets, saws and sanders.

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