

Clarke®



JUMPSTARTER

MODEL NO: JS1224Li JUMBO

PART NO: 6487080

OPERATING & MAINTENANCE INSTRUCTIONS

UK
CA | CE



ORIGINAL INSTRUCTIONS

DL0725

INTRODUCTION

Thank you for purchasing this CLARKE Jumpstarter.

The JS1224Li JUMBO is a rechargeable power pack which can be used to start a car in the event of a flat battery. The unit can also be used to power electrical appliances via a cigarette lighter type socket using the adaptor supplied. The unit also incorporates a built-in lamp and may be used as a stand alone light source. A visual warning will appear in the event that the clamps are incorrectly fitted for jump starting (wrong polarity).

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

Please keep these instructions in a safe place for future reference.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required 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 but in accordance with the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SPECIFICATIONS

Item	Specification
Weight	6.25 kg
Size (L x W x H)	290mm x 230mm x 190mm
Max Output Current	Starting 2000A Peak 7000A
Output voltage (open circuit)	12/24V
Battery Type	Sealed re-chargeable lithium-Ion 136500 mAh (499.59Wh)
Estimated engine starting capacity	Any petrol engine and up to 16L diesel engine (Lorries, SUVs & Cars)
Lifetime	≥2000 charging cycles
Full charging time	Approx. 9 Hours by supplied charger (65W Max.)
Max duration before recharging	3 months
Number of starts before re-charging	More than 100
Operating Temperature	Charge: 0°C to 60°C (32°F to 140°F) Discharge: -40°C to 60°C (-40°F to 140°F) Storage: -20°C to 60°C (-4°F to 140°F)
USB Cable Ports	2 x USB-A (2.4A & 1A)
Work Light	LED, 9 Lumens
Ingress Protection	IP20
Insulation Protection Class	Class II (Charger)
Transport Hazard Class	UN 3480

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

GENERAL SAFETY RULES



WARNING: ALL LEAD ACID BATTERIES IN VEHICLES GENERATE HYDROGEN GAS DURING NORMAL OPERATION. OVERCHARGING A BATTERY CAN PRODUCE HYDROGEN SULFIDE GAS WHICH IS POISONOUS TO BREATHE. ALWAYS CHARGE CAR BATTERIES IN A WELL VENTILATED SPACE.

WARNING: HYDROGEN GAS AND BATTERY ACID (SULPHURIC ACID) CAN BE: EXPLOSIVE, CORROSIVE TO SKIN, EYES AND HAIR, DAMAGING TO CLOTHING AND METALS, FLAMMABLE, POISONOUS TO BREATHE

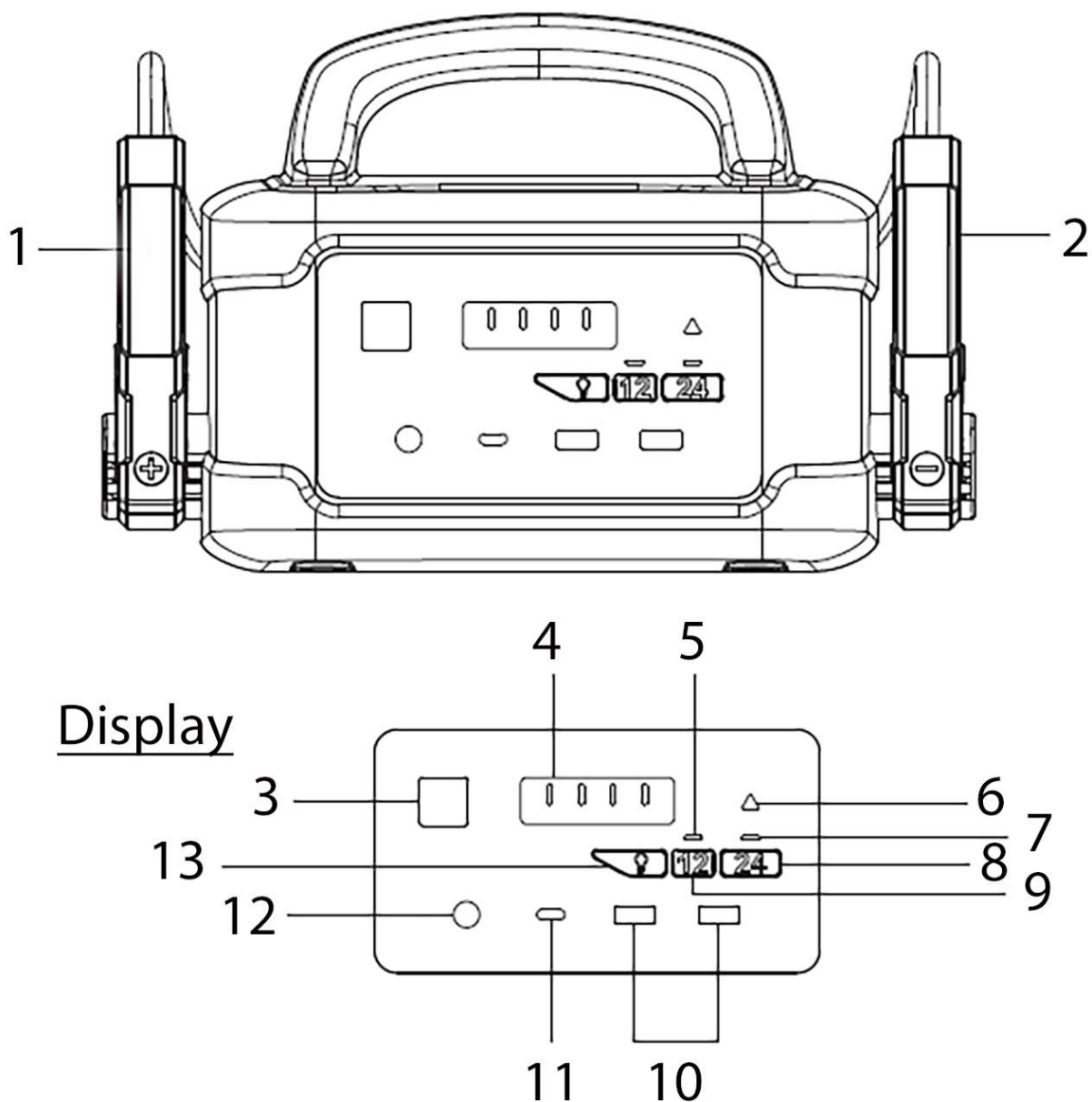
1. **ALWAYS** ensure when jump-starting that air can circulate freely around the jumpstart.
2. **NEVER** allow the negative and positive leads on this unit to touch each other or to touch the same metal object.
3. **DO NOT** leave it exposed to the elements. **AVOID** direct sunlight, direct heat, rain/moisture etc.
4. This jump-start is designed for use with 12V or 24V electrical systems.
5. **DO NOT** operate the jump-start if any of the cables are damaged. Consult your CLARKE dealer for repair or replacement.
6. **DO NOT** operate the jumpstarter if the case is damaged. Consult your CLARKE dealer or a qualified person for inspection and repair.
7. Ensure the vehicle battery posts and battery clamps are perfectly clean before use.
8. When connecting the jumpstarter leads to a battery, ensure the ON/OFF switch is OFF, and **ALWAYS** connect the RED, (positive '+') output conductor to the UNEARTHED (+) battery terminal **FIRST**, then connect the BLACK, (negative) conductor to a suitable earthing point on the chassis, well away from any fuel lines.
9. **ALWAYS** wear suitable protective clothing and eye protection when working with lead-acid batteries.
10. The jumpstarter is **NOT** designed to be used as a replacement for the vehicle battery.
11. **DO NOT** attempt to BOOST CHARGE the jumpstarters sealed battery.
12. **NEVER** allow the cables to become wrapped around the operator or any other person.
13. **NEVER** attempt any repairs yourself. If you have a problem with the jumpstarter contact your local CLARKE dealer.

14. **ALWAYS** keep your body and clothing dry. **NEVER** work in damp area without adequate insulation against electric shock.
15. **NEVER** jump-start the engine whilst the jumpstarter is being charged.
16. **ALWAYS** store the jumpstarter out of reach of children.
17. If splashed by battery acid, immediately flush the area of the splash with clean water. If a burning sensation is felt or any blistering occurs, seek medical help.
18. If battery acid comes into contact with the eyes, flush the eyes with clean water continuously and seek medical help.

SAFETY SYMBOLS

	Read the instruction manual		Wear Eye Protection
	Wear Protective Gloves		DO NOT incinerate
	Indoor use only		Harmful to aquatic life
	Warning: Battery Charging		Warning: Risk of electrical shock

COMPONENT IDENTIFICATION



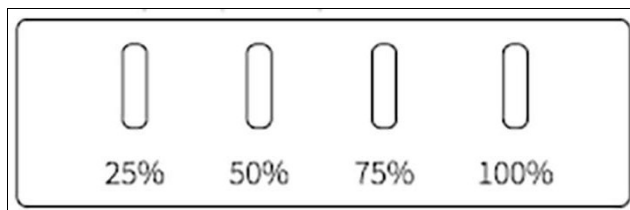
1	Battery Clamp: Positive/Red/+	9	12V Override Button
2	Battery Clamp: Negative/Black/-	10	USB-A Output Charging Port x 2
3	LED Flashlight	11	USB-C Input Charging Port
4	Battery Level Indicator	12	29V/5A DC Input Charging Port
5	12V Mode Indicator	13	Flashlight Button
6	Warning Light	14	USB Charging Cable (Not Shown)
7	24V Mode Indicator	15	29V DC Adaptor Charging Cable (Not Shown)
8	24V Override Button		

OPERATION

CHECKING THE BATTERY STATUS

1. Press any button.

- The Internal Battery Level Indicator LED's will illuminate to indicate the battery capacity level.



2. During charging, the indicator LED's will be flashing and turn solid one by one. When the battery is charged to a level, the corresponding indicator LED will turn solid and the next level LED will start flashing until all four indicator LED's are continuous on, then the lights will turn off, indicating the end of charging.

Battery Level Indicator	25% LED Flashing	1 LED Solid On	2 LED Solid On	3 LED Solid On	4 LED Solid On
Battery Level	0%	25%	50%	75%	100%

INITIAL BATTERY CHARGING



WARNING: ONLY USE THE CHARGER SUPPLIED WITH THE JUMP STARTER. USING OTHER CHARGERS MAY DAMAGE THE UNIT. ALWAYS CHARGE IN A WELL VENTILATED AREA AND ON A NON-FLAMMABLE SURFACE. DO NOT USE THE JUMP STARTER WHILE IT IS BEING CHARGED.

This jump-starter comes with two input ports for charging, a 29V DC input port and a USB-C input port.

1. **29V DC Charging:** Connect the 29V DC adaptor to the 29V DC input port.
2. Connect the 3 pin plug of the adaptor to a suitable plug socket and switch the socket on. The charger will automatically start charging the jump-starter.



1. **USB Charging:** Connect the USB-C cable to the units USB-C input port.
2. Connect the other end of the cable to any powered USB power port, such as a USB wall charger or USB car charger.

NOTE: Recharge the battery after each use or at least every 6 months when in storage to prolong battery life and keep the unit ready for use.



CAUTION: CHARGE ONLY AT AMBIENT TEMPERATURE BETWEEN 0°C to 40°C.

CAUTION: THE TWO INPUT PORTS DO NOT SUPPORT CHARGING AT THE SAME TIME, THE 29V DC INPUT HAS PRIORITY.

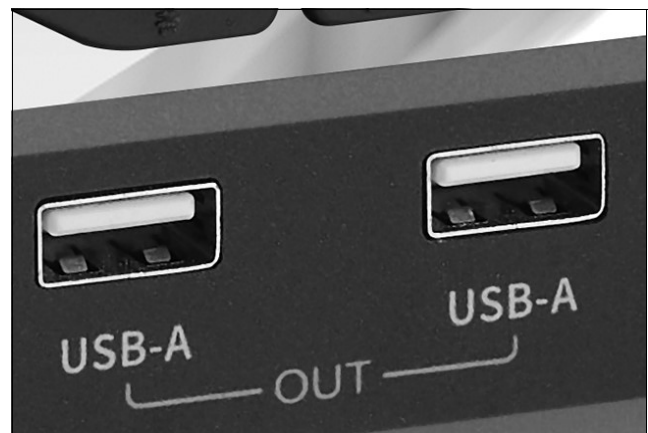
RUNNING/CHARGING USB DEVICES

This jump-starter is equipped with two USB-A output ports, which are ideal for charging portable electronic devices, such as smartphones, tablets and more.

1. Connect the device(s) to the USB output port(s) using a matched USB charge cable.

NOTE: The port on the left is 2.4A, the port on the right is 1A.

2. Press any button to turn the jump-starter on and activate the USB power.



USING THE LED WORK LIGHT

1. Press the flashlight button to activate the LED flashlight.
2. Keep pressing the button to cycle through the 4 options of the flashlight.
 - 100% On.
 - Strobe.
 - Morse code SOS pattern.
 - Off.



JUMP STARTING A VEHICLE (12V OR 24V)



CAUTION: DO NOT ATTEMPT TO JUMP START AN ENGINE IF THE BATTERY LEVEL IS AT 25%, SEE PAGE 7.

CAUTION: THIS STARTER IS BUILT WITH 12V AND 24V MODES. ALWAYS MAKE SURE THE STARTER IS ON THE CORRECT MODE TO MATCH THE VEHICLE.

CAUTION: DO NOT CRANK THE ENGINE FOR MORE THAN 3 SECONDS AT A TIME. THE JUMP-STARTER IS DESIGNED FOR SHORT TERM OPERATIONS ONLY. OPERATING THE JUMP-STARTER FEATURE FOR MORE THAN 3 SECONDS MAY CAUSE DAMAGE TO THE UNIT. ALLOW THE JUMP-STARTER TO COOL DOWN FOR AT LEAST 2 MINUTES AFTER EACH CRANKING.

Always carry out the following preliminary checks before connecting the jump-start to the car battery:

- Make sure that the vehicle ignition and all ancillary equipment - lighting, radio etc, is switched off.
 - Make sure that the vehicle battery is rated at 12V or 24V and is not damaged in any way.
 - Make sure that the battery terminals are clean and the clamps are firm and secure.
 - If fitted, remove any vehicle battery filler plugs and check the electrolyte level. If necessary, top up with distilled water.
 - Make sure that the area is well ventilated.
 - Take great care not to touch the red positive (+) clamp against the black negative (-) clamp.
1. Verify the jump starter is fully charged and recharge if needed.
 2. Make sure that the jumpstart is OFF.
 3. Turn off the vehicle ignition switch and all accessories (lights, radio, climate control, etc.)
 4. Connect the red positive (+) clamp to the positive (+) battery terminal first. Take care the clamp does not touch any moving parts or fuel lines.
 5. Connect the black negative (-) clamp to the negative (-) battery terminal or to a suitable earthing point on the vehicle chassis ensuring the connections are firm and secure.

6. Check the 12V and 24V mode LED's and warning light on the unit, then proceed accordingly.

LED Status	Description	Action
12V LED or 24V LED flashing or solid ON	Good Connection	Proceed with jump start attempt
RED warning light solid ON	Connection is reversed	Reconnect the clamps connections correctly
12V and 24V LED's flashing at same time	Vehicle battery is low, the starter can not identify the vehicle battery system is 12V or 24V	OVERRIDE mode will be required, see USING OVERRIDE MODE
No LED's ON	No connection detected: Poor connection between the clamps and the battery terminals	Check to ensure a clean and solid connection between the clamps and the battery terminals
	Vehicle battery voltage extremely low	If after checking that the clamps have a good connection both LED's are OFF, the use of OVERRIDE mode will be required, see USING OVERRIDE MODE

USING OVERRIDE MODE

This jump-starter has an OVERRIDE feature which allows you to force ON the jump-starter function, allowing you to boost discharged batteries as low as 0 volts.



WARNING: USE THE OVERRIDE MODE WITH EXTREME CARE.

- Both the spark proof and reverse polarity protection features are disabled.
- Pay very close attention to the polarity of the battery before using this mode.
- **DO NOT** allow the positive and negative battery clamps to touch or connect to each other as the unit will generate sparks.
- **DO NOT** connect a 12V vehicle if the 24V OVERRIDE mode is activated.
- **DO NOT** connect a 24V vehicle if the 12V OVERRIDE mode is activated.
- This mode uses very high current that can cause sparks and high heat if not used correctly.
- If you are unsure of the vehicle battery system is 12V or 24V, check the vehicle service manual or seek professional help.
- If you are unsure about using this mode, **DO NOT** attempt to and seek professional help.

1. Ensure the correct polarity (Red clamp to POS '+' terminal of the battery and black clamp to the NEG '-' terminal of the battery).
2. Ensure your vehicle battery system is 12V or 24V, then press and hold the 12V or 24V Mode button for 2 seconds.
3. The 12V LED or 24V LED will be continuous ON, the OVERRIDE mode is enabled.
4. Proceed with the jump start attempt within 30 seconds.



NOTE: The OVERRIDE mode will only be active for 30 seconds. Once 30 seconds has passed, the unit will reset.

DAILY CARE

ALWAYS ensure the cables & clamps are in good condition and the clamps are clean and corrosion free. If damaged they should be replaced. Keep the unit clean by wiping with a dry cloth. **DO NOT** use solvents as a cleaning agent.

Keep the unit fully charged at all times.

Always turn the jump-starter OFF during storage and store in an upright position, away from direct sunlight, moisture or sources of extreme heat or cold.

NEVER attempt any repair unless you are a qualified technician. Your CLARKE jumpstarter has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local CLARKE dealer.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The unit can not be activated by pressing any button	Over-discharge protection may be activated	Recharge the unit. If still can't activate the unit after recharging, contact the CLARKE service department.
The unit can not be recharged	No power from the AC adaptor or USB port	Change to a different plug socket. If the problem still persists contact the CLARKE service department.
	Faulty charging cable	Change the AC adaptor cable or USB charging cable. If the problem still persists contact the CLARKE service department.
The 12V LED flashing or solid on but it still can not jumpstart the vehicle	The vehicle battery system is 24V, but the battery voltage has dropped below 12V	Ensure your vehicle battery is 24V. If yes, you can use the 24V override mode, see 'Using Override Mode' section on page 11.
	Mechanical issue with vehicle	Seek vehicle service or professional help.
RED warning light flashing	Over temperature protection has activated	Stop using the jumpstarter and wait for the unit to cool down.
The 25%/50%/75% three LED's flashing together when recharging the unit	Internal battery temperature is too low, recharge is forbidden	Move to room temperature area, and recharge the unit after the internal battery has warmed up.
25%/50% two LED's or 50%/75% two LED's flashing together when recharging the unit	The AC adaptor is not original and does not match with the unit	Use an original AC adaptor to charge the unit.
25% one LED fast flashing	The internal battery is over charged	Contact the CLARKE service department.

If these remedies are unsuccessful, consult your CLARKE dealer or service department.

DECLARATIONS OF CONFORMITY - UKCA



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:

2023/1542	Battery Regulation
2014/30/EU	Electromagnetic Compatibility Directive
2014/35/EU	Low Voltage Directive
2011/65/EU	Restriction of Hazardous Substances (RoHS) Directive

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

EN IEC 61000-3-2:2019+A1:2021, EN 55032:2015+A11:2020, IEC 62321-6:2015, IEC 62321-8:2017,
EN 61000-3-3:2013+A2:2021, EN 55035:2017+A11:2020, EN 50525-2-11:2011, IEC 62321-12:2023,
EN 60320-1:2015+AC:2016+AC:2019+A1:2021, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013,
EN IEC 62368-1:2020+A11:2020, IEC 62321-3-1:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017,
EN 55032:2015+A1:2020

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: 2025

Product Description: Jump Starter
Model Number(s): JS1224LI JUMBO
Serial/Batch Number: Refer to product/packaging label
Date of Issue: 01/08/2025

Signed:

J.A Clarke

Director

DECLARATIONS OF CONFORMITY - CE



Clarke[®]
INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

DECLARATION OF CONFORMITY

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

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EN 61000-3-3:2013+A2:2021, EN 55035:2017+A11:2020, EN 50525-2-11:2011, IEC 62321-12:2023,
EN 60320-1:2015+AC:2016+AC:2019+A1:2021, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013,
EN IEC 62368-1:2020+A11:2020, IEC 62321-3-1:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017,
EN 55032:2015+A1:2020

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 CE mark was first applied in: 2025

Product Description: Jump Starter
Model Number(s): JS1224LI JUMBO
Serial/Batch Number: Refer to product/packaging label
Date of Issue: 01/08/2025

Signed:

J.A Clarke

Director

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