

RAC

Portable Power Station/Engine Starter RAC-HP083

MAINTENANCE

Always inspect the tool before use to ensure the cables are in good condition and the clamps are clean and free from corrosion. Have them replaced if there is any damage. Keep clean by wiping with a dry cloth. Do not use solvents as a cleaning agent.

12V DC outlet socket

A built-in protective device will limit the power when the product overloads. In this case, disconnect the device that provoked the overload and wait for approximately five minutes before re-use.

WARNING:

- Do not use the output socket and engine starter at the same time.
- The output can be as high as 13 volts after the product has been fully charged, consult your appliance handbook to ensure it is safe to operate.
- Do not allow the battery to be completely discharged, i.e. below 11.2V, as the charger can not recover a deeply discharged battery.

*If faults cannot be remedied, contact the **Helpline** on **020-83916767**
Helpline@hilka.co.uk*

GUARANTEE

This product is guaranteed for domestic use for a period of 12 months against faulty manufacture or materials. This guarantee does not affect the statutory rights of the consumer. If in the event of any problem occurring please contact our Helpline at the number above for advice. This product is not guaranteed for HIRE purpose.

Manufactured under licence by Hilka Pro Imports.

1 ROEBUCK PLACE, ROEBUCK ROAD, CHESSINGTON, SURREY KT9 1EU

HP083 - Issue 1 - R.W. 08-01-07



Environmental protection



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

SAFETY INSTRUCTIONS

Follow basic safety principles to reduce risk of personal injury, electric shock and fire. Please read the following instructions prior to operating this product and keep for future use.



WARNING

- Do not let children handle the tool, all onlookers should be away from your work area. Work in an uncluttered area.
- This product may be used outdoors. Do not leave it exposed to the elements. Do not use the tool in damp or wet areas.
- Protect the tool from direct sunlight. Do not use the tool near flammable gases or liquids. Check cables before operation. Battery may explode due to over-heating.
- Do not carry the tool by the cable or pull the cable to remove the plug from the mains socket. Protect the cable from sharp objects, heat and oil. Have it replaced if damaged.
- Always ensure the tool is not damaged. Do not operate if either of the cables are damaged. Consult a qualified person for repair.
- Do not attempt to repair or open this tool (which contains no user serviceable parts).
- The internal battery is a sealed lead acid battery. It is classified as non-spillable and has unique sealing techniques to guarantee that no electrolyte leakage will occur. If it is necessary to replace the battery, then it should be done by a qualified technician only and must be of the same specification as the original.
- Do not allow the battery, at any time, to become totally discharged. The product should be kept fully charged when not in use. If kept in storage it must be recharged every 2 months.
- The product is designed for use with 12V systems only. Do not use engine starter for any purpose other than that is designed. For best performance do not use more than one output at a time.
- When using the 12V DC output socket, ensure that the plug of the item you are to power has the positive lead to the centre pin of the plug.
- The product is not designed to be used as a replacement to a vehicle battery.
- Never allow the NEGATIVE and POSITIVE leads on this unit to touch each other OR the same metal object.
- Ensure the posts and clamps of the vehicle battery are perfectly clean before use.
- When connecting the engine starter leads to a battery, always connect the RED (positive, +) clamp to the unearthened battery terminal first, then connect the BLACK (negative, -) clamp to the chassis or suitable engine bolt, well away from the battery and fuel line.
- To prevent battery overheating and consequent damage, do not exceed our recommendations for jump starting.
- When engine is starting ensure the area is well ventilated
- Do not attempt to boost charge the engine starter's sealed battery.

COMPONENTS



Components list

1. AC /DC Charging adaptor
2. 12V DC Charging lead
3. 12V DC outlet socket
4. Polarity / Power ON indicator
5. Work light Switch
6. Work light
7. Charging socket
8. Battery status indicators
9. Battery status button
10. 12V DC outlet socket switch
11. Jumpstart safety switch
12. Heavy duty cable clamp
13. Charging indicator

SPECIFICATIONS & FEATURES

Specifications

Battery Type: ----- 12V DC Sealed Lead +Electrolyte. Gel Battery
Rechargeable
Maintenance Free

Output Sockets: ----- 12V DC nominal
Output Socket protection: ----- 10 Amp circuit breaker

FEATURES

This product is equipped with a rechargeable 12V DC battery as a power supply. The sealed maintenance free heavy duty battery is safe to use and transport, and allows the product to be stored in any position without risk of leakage. It provides up to 50 hours of DC power depending upon application. It can be used in remote sites and for emergency boosting as listed below.

1. Emergency Booster Power

The battery can provide up to 400Amp cranking power to jumpstart your car if the car battery is in good condition but depleted.

2. 12V DC outlet socket

The unit is equipped with a 12V DC accessory outlet socket (3). It allows most auto accessories / appliances such as car vacuum, car fan, electric mini tyre inflator /deflator etc to be operated up to a maximum load of 10 Amps,

Check the appliance handbook to ensure it is safe to use with a 12V battery. A special adaptor may be required.

In the event of an overload an internal circuit breaker will cut off power, and so protecting the supply circuit. Disconnect the device that caused the overload, and wait for approximately 15 minutes to allow circuit breaker to reset.

3. OPERATING RECOMMENDATIONS

Important:

Fully charge the internal battery before using it for the first time. (See charging instructions on page 5)

You are advised to recharge the battery after each use.

Only use accessories that are 12 V DC.

Do not recharge the internal battery at temperatures below 4°C or above 40°C

Do not connect devices with incorrect polarities.

When using the 12V DC outlet socket (3), make sure that the plug you are connecting is positive (+) on the center pin.

OPERATING INSTRUCTIONS

WHEN TO CHARGE:

- Fully charge the internal battery before using it for the first time.
- The battery should be charged after each use to maintain maximum power.
- For maximum power recharging the battery before each use is recommended.
- If the unit is in storage, fully recharge the battery every 2 months.

Do not allow battery to be completely depleted, as this can damage the battery.

HOW TO CHARGE

The internal battery should only be charged using the accessories supplied. Two means of charging the internal battery are available:

The recommended method of charging is via the AC charger.

A. Via 230V mains supply using the AC charger (1).

Insert the jack plug of the AC charger into the charging socket (7). Plug AC charger into a suitable 230/240v AC 50 Hz mains socket. The charging indicator (item 13) will come on indicating that charging is taking place. Initial charge time is 38 hours continuously; recharge time can be up to 36 hours continuously. When charging is complete disconnect the charger from the mains socket then remove the jack plug from the charging socket.

B. Via 12V supply using the DC charging lead (2).

NOTE: Ensure that the vehicle has a 12-volt negative earth system. The engine of the vehicle needs to be running to ensure charging process.

Insert the accessory plug of the DC charging lead (2) into the vehicle's accessory socket. Connect the other end to the charging lead (jack plug) into the charging socket (7)

CHARGING TIME:

- The charging time varies considerably depending on several factors, the weather conditions, how often the unit is used, the level of discharge of the unit, etc.
- From the AC adaptor supplied (1), it takes around 36 hours continuously for the unit to achieve full charge if the battery has been deeply discharged.
- From a DC 12 V power supply; it takes approximately 14 hours continuously, while the engine is running

12V DC outlet socket

The 12V DC outlet socket can be used to drive other 12V DC tools with a rating of up to 10 Amps.

- Insert accessory plug of the product to be powered into the 12V DC outlet socket (3).

NOTE:

- **Do not exceed maximum load of 10 amps.**
- **When using the 12V outlet socket (3), make sure that the plug you are connecting is positive (+) on the center pin.**

OPERATING INSTRUCTIONS

HOW TO JUMP START A CAR

The ENGINE STARTER provides a current up to 400 Amp (maximum) to assist with the starting of a car when the car battery is flat.

Check to ensure the following before connecting the booster cable clamps to the car battery:

- Ensure the ignition is off and the engine starter is fully charged.
- Ensure all ancillary equipment (lighting, radio etc.) is switched off.
- Ensure the vehicle battery is rated at 12V and is not damaged in any way.
- Ensure the battery terminals are perfectly clean; the clamps are firm and secure.
- Remove vehicle battery filler plugs and check electrolyte level. If necessary, top up with distilled water.

Follow the steps below to jump-start your car engine:

1. Connect the red clamp to the positive "+" terminal of the car battery.
2. Connect the black clamp to the negative terminal "-" or a well grounded chassis point well away from any fuel lines or moving parts, and ensure the connection is secure.
3. Switch 'ON' the jumpstart safety switch (11) and leave in this condition FOR APPROX FIVE MINUTES. (This will provide the vehicle battery with a short 'boost' charge to allow for easier starting).
4. Switch the car ignition 'ON' to 'start' for no more than 6 seconds, if the engine does not start within this time, switch off the ignition and wait for at least 3 minutes before trying again.
5. Once the engine starts running, switch 'OFF' the jumpstart safety switch then disconnect the black clamp "-" first and return it to its storage position. Then disconnect the red clamp "+" from the battery terminal and restore it to its storage position.

STORAGE & MAINTENANCE

- Protect the product from direct sunlight and other heat sources, as there is a risk of explosion of the internal battery. Store at a temperature between 4°C to 40°C
- The technology used during the manufacture of the internal battery excludes any risk of electrolyte gel leakage from the inside of the battery. You are nevertheless recommended to keep the battery upright when storing it for long periods.

NOTE: Recharge the battery after each use or every 6 to 8 weeks. Do not exceed 2 months without charging.

TROUBLESHOOTING

Trouble	Cause	Remedy
Vehicle does not start	1. Bad clamp connections 2. Very low vehicle battery charge 3. Low battery charge on unit 4. Vehicle battery defective	1. Rotate the clamps back & forth to make a solid and better connection 2. Wait 3 to 4 minutes before starting vehicle again 3. Fully recharge unit 4. Replace with new battery
Device connected to 12V DC outlet socket does not operate	1. No output power at 12V DC outlet socket 2. Bad connection to the 12V DC outlet socket 3. Low battery charge on unit 4. Device fuse blown	1. Internal circuit breaker is off. Remove accessory plug from unit socket. Wait 15 minutes for unit to automatically reset 2. Re-insert accessory plug into 12V DC outlet socket securely. 3. Fully recharge unit 4. Replace fuse

FIRST AID

Make sure fresh water and soap are available nearby in case battery acid contacts skin, eyes or clothing. If contact with battery acid occurs. rinse immediately and thoroughly with water. Then wash with soap and water. Obtain immediate medical attention if redness, irritation or pain is present. For eye contact flush eyes for at least 15 minutes and obtain immediate medical attention.