

HARDKORR Bluetooth Battery Monitor Instruction Manual

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Congratulations on purchasing this high quality Hardkorr product.

In doing so, you now have the assurance and peace of mind that comes from purchasing a product that has been manufactured to the highest quality standards.

Our aim is for you to be completely satisfied with your purchase, and therefore your new Hardkorr product is backed by a comprehensive 2-year warranty and an outstanding after-sales customer service team.

We hope you will enjoy using this product for many years to come.

If you require technical support, or in the unlikely event your purchase appears to be faulty, please contact our support team for immediate assistance. Contact details for each country are contained within this user guide.

Contents

- [1 GENERAL PRODUCT INFORMATION](#)
- [2 DISCLAIMER](#)
- [3 PACK CONTENTS](#)
- [4 SPECIFICATIONS](#)
- [5 OVERVIEW](#)
- [6 CONNECTING TO MULTIPLE BATTERIES IN SERIES](#)
- [7 CONTROL PANEL OPERATION](#)
- [8 Documents / Resources](#)
- [9 Related Posts](#)

GENERAL PRODUCT INFORMATION

Our Bluetooth Battery Monitors offer unrivalled quality, durability and value for money.

This battery monitor, also known as a coulometer, displays essential battery information through a dedicated monitor or by connecting your phone via Bluetooth. By using a 500A shunt (350A continuous), highly accurate data is collected such as charge level (Ah and %), live current draw (A), live voltage (V) and live watts (W). The apparatus also includes an integrated alarm function to alert you when your battery is discharged to a set level, and short circuit and reverse polarity protection technology.

This Battery Monitor is suitable for all common battery types including AGM, wet, gel, calcium and lithium.

PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

This manual contains important safety instructions for your Bluetooth Battery Monitor.

Do not operate the Battery Monitor or modify the installation unless you have read and understood this user manual. Pay particularly close attention to CAUTION and WARNING statements.

Hardkorrr recommends that the battery monitor be installed by an appropriately qualified professional.

DISCLAIMER

While caution has been taken to ensure the accuracy of the contents of this guide, Hardkorrr assumes no responsibility for errors or omissions. Please note that specifications and product functionality may change without notice.

WARNING

- DO NOT alter or disassemble the battery monitor under any circumstances. Any effort made to modify, repair or attempt to gain access to the electronics may void the unit warranty.
- Avoid all contact with water, rain, snow or spray. Failure to do so may lead to permanent irreparable damage to the internal electronics and may void the unit warranty.

CAUTION

The battery monitor should not be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been instructed on how to use the appliance by a person responsible for their safety.

Mounting the battery monitor in a location that is exposed to sunlight may shorten the lifespan of the LCD screen.

PACK CONTENTS

1x	LCD display module
1x	100V/500A shunt
1x	6m shielded cable
1x	6m B+ wire
1x	Mounting indicator card
1x	Set of mounting screws and pad
1x	Screen mounting cut-out template

SPECIFICATIONS

Supply voltage	10-120V
Battery capacity	10-1000Ah
Max measured current	500A
Power consumption (screen off)	0.08A
Power consumption (screen on)	0.15A
Voltage accuracy	±1%
Current accuracy	±1%
Capacity accuracy	±1%
Operating temperature	-20°C to 50°C
Bluetooth	Yes
Weight (LCD screen)	110g
Dimensions (LCD screen)	125 x 82 x 21mm
IP rating	IP20
Standards	CE, RoHS, RCM

OVERVIEW

1. Max Capacity Voltage/Alarm
2. Exhausted Capacity Voltage
3. Full Charge Voltage
4. Battery Capacity
5. Low Capacity Alarm
6. Set Screen On Time

CONNECTING TO YOUR BATTERY

1. Connect the shunt to the LCD monitor using the supplied shielded cable.
2. Connect the shunt to the positive circuit of the battery by running the supplied cable from one of the two terminals marked "B+" on the shunt to the positive terminal on your battery. Ensure you keep this cable as short as possible i.e. cut it to suit the length you require.
3. Connect the shunt to the negative terminal of your battery. Run a cable from the terminal marked "B-" on the shunt to the negative terminal on the battery (keep this cable as short as possible), and from the terminal marked "P-" on the shunt to your system ground.

Note: Only the B- to battery terminal lead should be in contact with the battery's negative terminal. Connecting other leads to the negative terminal will render incorrect readings from the monitor.

CONNECTING TO MULTIPLE BATTERIES IN SERIES

Connect your battery monitor to multiple batteries wired in series as shown below. Ensure you use cables of appropriate gauge for your system


CONNECTING TO MULTIPLE BATTERIES IN PARALLEL

Connect to multiple batteries wired in parallel using busbars, as shown. All cables connecting batteries to the busbars must be of equal length. Ensure you use cables and busbars of appropriate size for your system.

Note: The negative busbar should only come in contact with leads running from the negative terminals on the batteries.

CONTROL PANEL OPERATION

Documents / Resources

	<p>HARDKORR Bluetooth Battery Monitor [pdf] Instruction Manual Untitled, v1.3.0, Bluetooth Battery Monitor, Battery Monitor, Monitor</p>
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