KICKASS

AUSTRALIAN OWNED AND OPERATED

125Ah & 205Ah LITHIUM POWER STATIONS WITH BLUETOOTH DCDC CHARGER

OWNER'S MANUAL

KAJBBOX125AH25A / KAJBBOX205AH40A

V1.2

SAFETY INFORMATION

WARNINGS

- The total current draw from the battery must not exceed the maximum rated discharge current. Exceeding this may cause the internal BMS to shut down.
- Never attempt to recharge non-rechargeable batteries.
- The lid of the battery box must remain shut at all times while charging or powering devices.
- Do not allow any metal objects to fall into the battery box or enter any of the ports.
- Never insert anything other than a compatible electrical plug into any of the ports.
- Ensure that the battery box is securely closed and screws are tightened before powering any devices.
- Do not attempt to jumpstart a vehicle with this battery box.
- Do not expose the battery box to fire, sparks, or high heat sources.
- Keep the battery box away from water and moisture exposure.
- Only use the battery box within the recommended temperature range for charging and discharging.

SAFETY INFORMATION

- Fully charge the battery box before first use or after long periods of inactivity.
- Recharge the battery fully at least every three months to maintain battery life.
- Do not attempt to disassemble or replace the battery cells.
- The battery box is not intended for use by individuals with reduced physical, sensory, or mental capabilities without supervision.
- Children must always be supervised around the battery box.
- Do not move the battery box while it is charging or in use.
- Do not expose the battery box to rain or immerse it in water.
- Avoid placing the battery box near flammable materials during use or charging.
- Only use the included or compatible chargers and accessories provided by the manufacturer.
- If the battery box emits unusual sounds, smells, or heat, immediately disconnect all loads and charging sources and inspect before further use.

TABLE OF CONTENTS

SPECIFICATIONS

KAJBBOX125AH25A	
BATTERY INFORMATION	
BATTERY CHEMISTRY	LifePO4
NOMINAL VOLTAGE	12.8V
MAX CHARGE VOLTAGE	14.6V
RATED CAPACITY	1600Wh
BATTERY CAPACITY	125Ah
MAX CHARGE CURRENT	120A
MAX DISCHARGE CURRENT	120A
OPERATING TEMPERATURE	Charge: 0°C to 55°C Discharge: -20°C to 60°C
SELF-DISCHARGE	<3% per month @ 25°C
LOW VOLTAGE CUTOUT	10V
DCDC CHARGER INFORMATION	
DCDC CHARGER	25A DCDC Charger with Solar MPPT
INPUT VOLTAGE	12 or 24V
ALTERNATOR INPUT VOLTAGE RANGE	9-32V DC
SOLAR INPUT VOLTAGE RANGE	9-32V DC
MAXIMUM INPUT CURRENT	28A
MAXIMUM CONTINUOUS CHARGING CURRENT	25A
BATTERY BOX INFORMATION	
ANDERSON SOCKET (INPUT/OUTPUT)	6 x sockets with 50A shared circuit breaker
HIGH-POWER ANDERSON SOCKET (INPUT/OUTPUT)	1 x socket (120A Max)
CIGARETTE SOCKET (OUTPUT)	1 x cig + 1 x usb (2ports) share 15amp auto reset circuit breaker x2
USB-A (OUTPUT)	2 x QC3.0 ports with 18W
USB-C (OUTPUT)	2 x PD ports with 45W
BATTERY DISPLAY	State of Charge (SOC) Voltage Current Temperature Time to full/empty
CONNECTIVITY	LifePO4 Battery - Bluetooth DCDC Charger - Bluetooth
DIMENSIONS	430mm (L) x 260mm (W) x 398mm (H)
WEIGHT	18.15kg
CERTIFICATIONS	IEC626219 | EMC | RCM | FCC

KAJBBOX205AH40A	
BATTERY INFORMATION	
BATTERY CHEMISTRY	LifePO4
NOMINAL VOLTAGE	12.8V
MAX CHARGE VOLTAGE	14.6V
RATED CAPACITY	2624Wh
BATTERY CAPACITY	205Ah
MAX CHARGE CURRENT	200A
MAX DISCHARGE CURRENT	200A
OPERATING TEMPERATURE	Charge: 0°C to 55°C Discharge: -20°C to 60°C
SELF-DISCHARGE	<3% per month @ 25°C
LOW VOLTAGE CUTOUT	10V
DCDC CHARGER INFORMATION	
DCDC CHARGER	40A DCDC Charger with Solar MPPT
INPUT VOLTAGE	12 or 24V
ALTERNATOR INPUT VOLTAGE RANGE	9-32V DC
SOLAR INPUT VOLTAGE RANGE	9-32V DC
MAXIMUM INPUT CURRENT	56A
MAXIMUM CONTINUOUS CHARGING CURRENT	40A
BATTERY BOX INFORMATION	
ANDERSON SOCKET (INPUT/OUTPUT)	6 x sockets with 50A shared circuit breaker
HIGH-POWER ANDERSON SOCKET (INPUT/OUTPUT)	1 x socket (200A Max)
CIGARETTE SOCKET (OUTPUT)	1 x cig + 1 x usb (2ports) share 15amp auto reset circuit breaker x2
USB-A (OUTPUT)	2 x QC3.0 ports with 18W
USB-C (OUTPUT)	2 x PD ports with 45W
BATTERY DISPLAY	State of Charge (SOC) Voltage Current Temperature Time to full/empty
CONNECTIVITY	LifePO4 Battery - Bluetooth DCDC Charger - Bluetooth
DIMENSIONS	430mm (L) x 260mm (W) x 398mm (H)
WEIGHT	25kg
CERTIFICATIONS	IEC626219 | EMC | RCM | FCC

DIMENSIONS FOR 125Ah AND 205Ah

KAJBBOX125AH25A
WEIGHT: 18.15KG

KAJBBOX205AH40A
WEIGHT: 25KG

INCLUDED COMPONENTS

KAJBBOX125AH25A

DCDC CHARGER 25A

ACCESSORY LID WITH BUILT IN REMOTE DISPLAY

LITHIUM BATTERY 125Ah

KAJBBOX205AH40A

DCDC CHARGER 40A

ACCESSORY LID WITH BUILT IN REMOTE DISPLAY

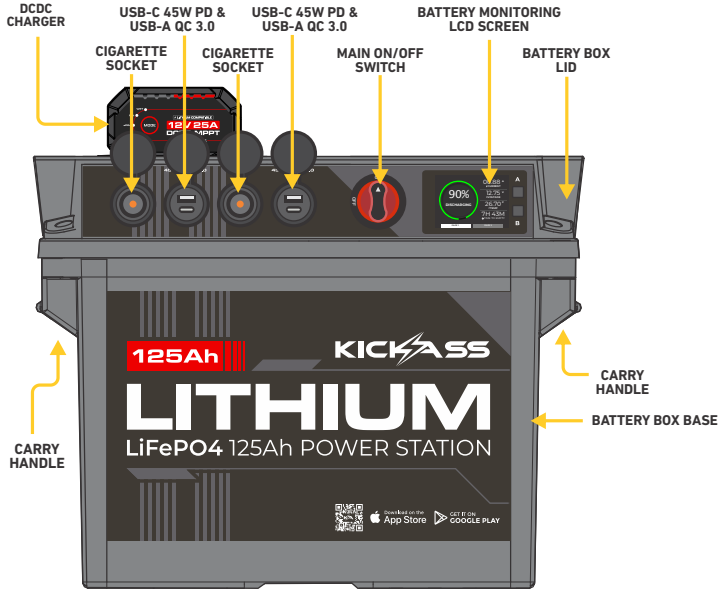
LITHIUM BATTERY 205Ah

PRODUCT FEATURES

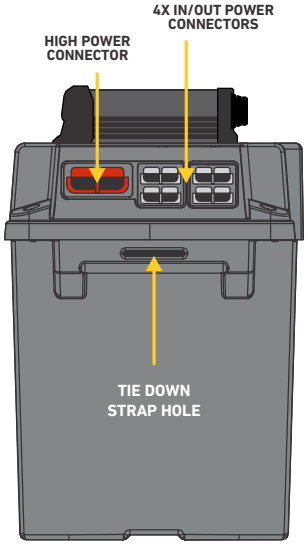
- All-in-one 12V power station combines battery storage, alternator charging, solar charging, and DC power distribution in a single integrated unit, simplifying off-grid setups.
- Integrated DC-DC charger with MPPT allows fast and efficient charging from alternator and solar. The 125Ah model features 25A DCDC, while the 205Ah model features 40A DCDC.
- Built-in LCD display shows real-time battery information including voltage, current, state of charge, estimated time to full or empty, and Status
- Bluetooth smart monitoring allows live system performance tracking, battery health monitoring, and DCDC charger configuration via the KA Lithium & KA Charge App's.
- High-quality A-grade prismatic LiFePO4 cells provide reliable deep-cycle performance. 125Ah model offers up to 120A max discharge, 205Ah model up to 200A max discharge.
- USB fast charging ports include 2 × USB-C 45W PD and 2 × USB-A QC3.0 for powering phones, tablets, cameras, laptops, and other devices.
- Multiple Anderson input/output connectors provide flexibility for connecting solar, alternator, loads, or expansion devices without custom wiring.
- Compatible with 12V and 24V alternators and suitable for most vehicles, including dual cabs and mild hybrids, with adjustable max input current settings.
- Factory-wired with neat cable routing, cable glands, and protective housings for a tidy and professional installation in canopies, campers, or 4WD tubs.
- Rugged, impact-resistant casing with reinforced handles designed to withstand dust, vibration, and off-road conditions.

PRODUCT OVERVIEW

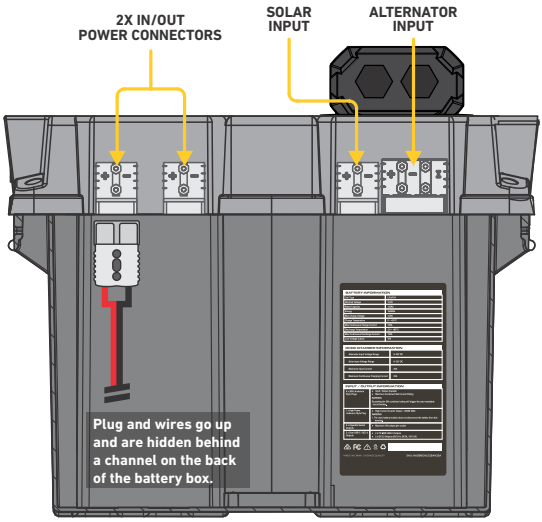
POWER STATION



FRONT

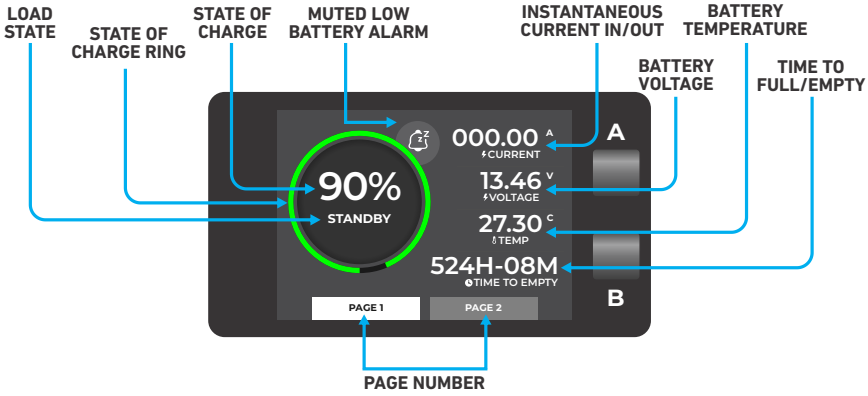


SIDE



BACK

LCD SCREEN



DCDC CHARGER

1. Status Indicators
ALT - Alternator Indicator
SOLAR - Solar Panel Indicator
FAULT - Fault Indicator
BULK - Bulk Stage Indicator
ABS - Absorption Stage Indicator
FLOAT - Float Stage Indicator

2. Battery Mode Indicator

3. Mode Button

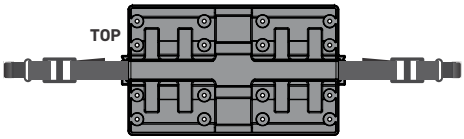
PRODUCT INSTALLATION

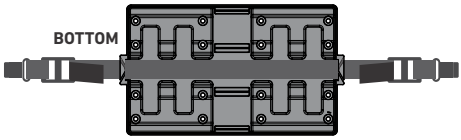
The KickAss Battery Box is designed to be versatile and portable, allowing you to place it virtually anywhere in your vehicle, camper, or campsite without restriction. Its compact and rugged design means it can sit safely on a floor, shelf, or other stable surface. However, if you prefer a dedicated mounting location for added stability or a cleaner installation, you can purchase the optional **KickAss Battery Box Tray**. This tray provides a secure, purpose-built base to hold the battery box in place, making it ideal for vehicles, canopies, or storage compartments where movement needs to be minimized.

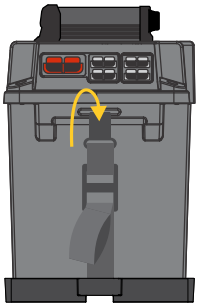
INSTALLING THE BATTERY BOX TRAY

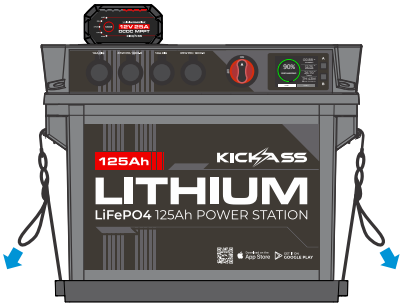
1. Select a suitable mounting location, ensuring the area allows safe drilling if required and provides a stable, level surface for the tray.
2. Install the mounting straps onto the tray by sliding each strap into the dedicated slots on either side, making sure the hooks are oriented toward the battery box once placed.
3. Secure the tray in place using appropriate bolts or screws with washers. Drill pilot holes if necessary, taking care not to damage the tray.

   Note: Bolts or screws are not supplied with the tray and must be sourced separately.
4. Place the battery box carefully onto the tray so that the straps remain outside the box for easy access. Hook each strap onto the corresponding slot on the battery box, ensuring a secure fit on both sides.
5. Firmly press each strap downward until the battery box is held securely. The box should not move easily and should remain stable during vehicle movement or vibration.









PRODUCT CONFIGURATION

Make sure that the DCDC charger's battery type is set to LifePO4. If not, please follow these steps:

Setting the Battery Type – via Mode Switch

1. Press and hold the MODE button for four seconds.
2. The selected mode will flash indicating that the charger has entered battery selection mode.
3. Press the mode button repeatedly to cycle through the available battery types:

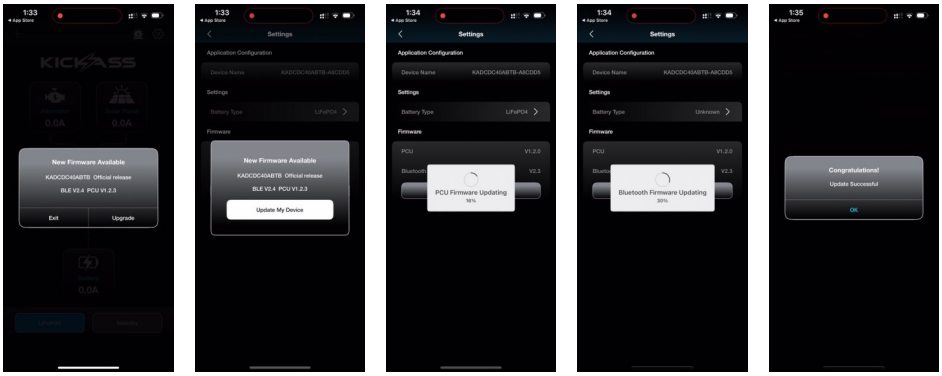
   AGM ▶ Cal (Calcium-based) ▶ LiFePO4 (Lithium) ▶ Gel ▶ Wet
4. Stop on the desired battery type; it will be saved automatically after a short delay

Setting the Battery Type – via Bluetooth App

1. Download the mobile application from the Apple App Store or Google Play Store

KA CHARGE 4+
Kickass Products Pvt Ltd
Designed for iPhone
Free

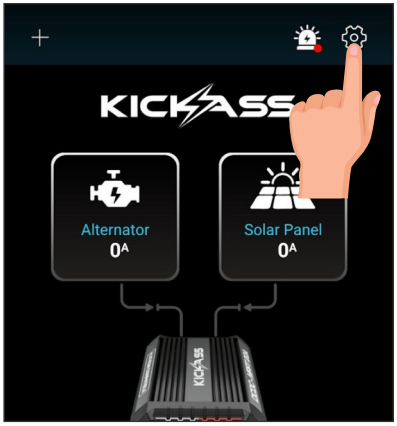
2. When the Bluetooth mobile application first connects to the DCDC charger, it will automatically check for any available firmware updates. If an update is available, it must be downloaded and installed before the app can be used.

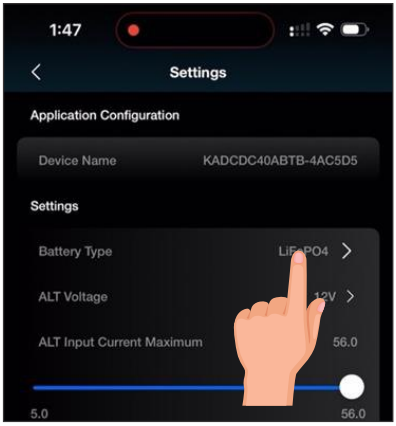


During the Over-The-Air (OTA) update process, all LED status lights on the DCDC charger will flash.

Important: Do not disconnect power to the DCDC charger or close the app while the OTA update is in progress.

3. Configure the battery type by tapping the Settings icon on the main page of the app. Select Battery Type and select LiFePO4



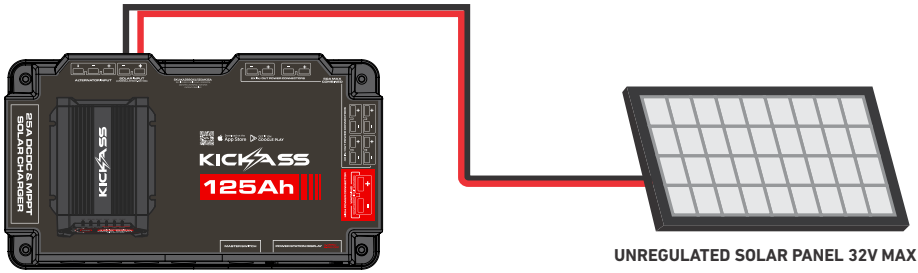


CHARGING THE BATTERY BOX

NOTE:

- Before connecting any charger or external power source, always verify that the voltage and current specifications fall within the acceptable input parameters of the battery and the battery box. Using incompatible power sources may cause damage or unsafe operation.
- If you are going to charge via one of the 6 input/output Anderson sockets, please make sure that the main switch is turned on. The main switch disconnects all sockets aside from the high-power Anderson socket.
- Connecting multiple chargers to the battery simultaneously is not recommended.

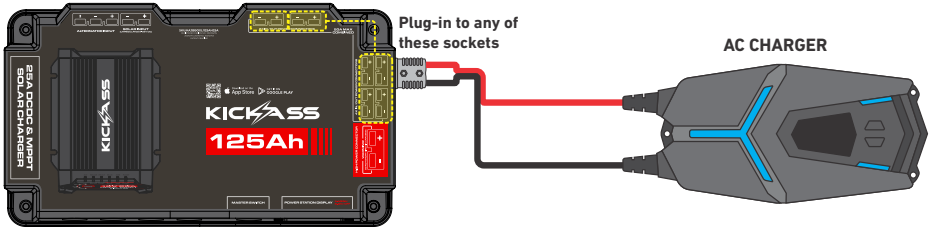
1. SOLAR VIA THE INBUILT MPPT SOLAR REGULATOR



Plug the solar panel (maximum of 32V Voc) into the dedicated solar input Anderson socket, located at the back side of the battery box.

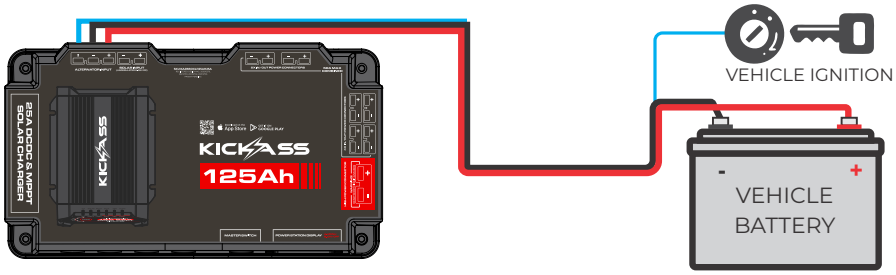
If your solar panel has PV/MC4 connections, you can use a PV to Anderson extension cable such as KAPVAND05M.

2. AC CHARGER



Connect the AC charger's Anderson plug to any of the highlighted input/output Anderson sockets. Make sure that the charging mode is set to Lithium and select the appropriate mode (slow or fast charging).

3. VEHICLE ALTERNATOR



Using a KickAss DCDC Wiring kit, connect to your vehicle battery's positive (+) and negative (-) and tap to an ignition-only active fuse slot using a piggy-back fuse. Plug the three-pin Anderson to the dedicated alternator input located at the back of the battery box.

Wiring Kits Required:

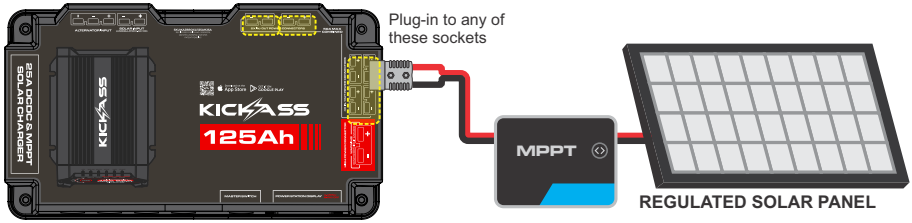
125Ah Power Station with 25A DCDC: KAHDDBWKPP65 (6.5m) or KAHDDBWKPP80 (8m)

205 Ah Power Station with 40A DCDC: KAPRDBWK8MMPP (6m) or KAHDDBWKPP80 (8m)

Note: Always check the alternator input if the current is acceptable within the input parameters of the charger especially for hybrid vehicles.

KAHDDBWKPP65 **KAHDDBWKPP80** **KAPRDBWK8MMPP**

4. SOLAR VIA A REGULATED PANEL



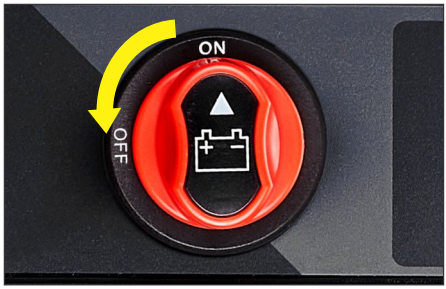
Connect the solar panel's Anderson plug to any of the highlighted input/output Anderson sockets.

USING THE BATTERY BOX

Note: Fully charge the lithium battery before for first use and prior to any extended trips.

Turning the master switch on and off

The master switch disconnects everything except the high-power Anderson socket. Ensure that it is turned on whenever you are going to use other sockets.



Using the input/output Anderson sockets

Check the current draw of your device before connecting. If using multiple devices across the six Anderson sockets, ensure the combined load does not exceed 50A, otherwise the auto-resetting breaker may trip.

6 X (50A) ANDERSON STYLE PLUGS

2 x (50A) Anderson Style Plugs on the back

4 x (50A) Anderson Style Plugs on the side

Using the high-power Anderson socket

Check the current draw of your device before connecting. Ensure that it does not exceed 120A (for 125Ah battery box) and 200A (for 205Ah battery box). Please take note that the master switch does not disconnect the battery from this socket. This socket is also not fused or short circuit protected.

Using cigarette sockets

Check the current draw of your device before connecting. The sockets are protected via a 15A breaker. Ensure the combined load does not exceed 15A, otherwise the auto-resetting breaker may trip.

2 x Cigarette Socket Outputs

Using the 2 x USB-C and 2 x USB A

Power your devices quickly and efficiently using the two USB-C 45W PD ports and two USB-A QC 3.0 ports.

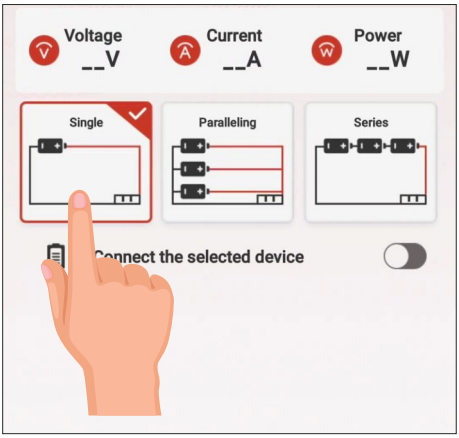
Charge phones, tablets, laptops, and other high-power devices anytime, anywhere. To maximize the output of these sockets, please make sure to use appropriate charging cable.

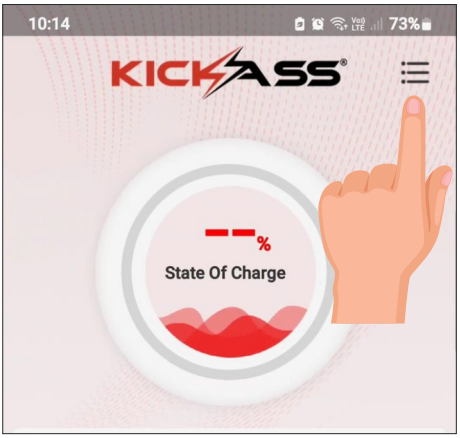
2 x USB-C 45W PD / USB-A QC 3.0

Note: each pair of USB and Cigarette sockets are protected via a shared 15A circuit breaker. Ensure the combined load does not exceed 15A, otherwise the auto-resetting breaker may trip.

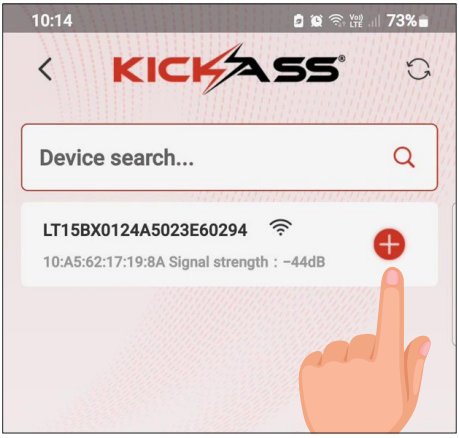
BLUETOOTH APP CONNECTION AND OPERATION

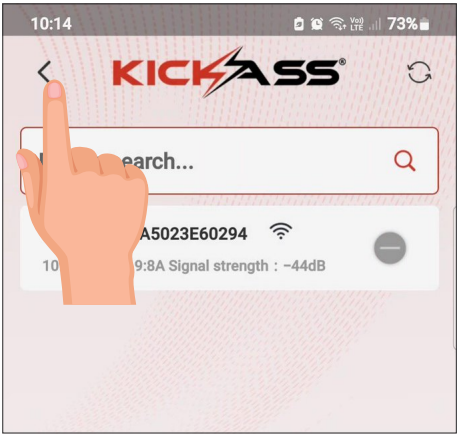
1. When the app is first launched, select “Single” battery configuration. The parallel and series configuration are not applicable when the battery is configured as a Power Station. To scan for a new battery, select the scan option at the top of the page.



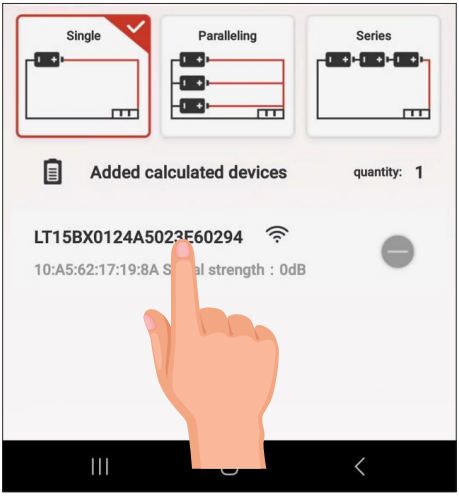


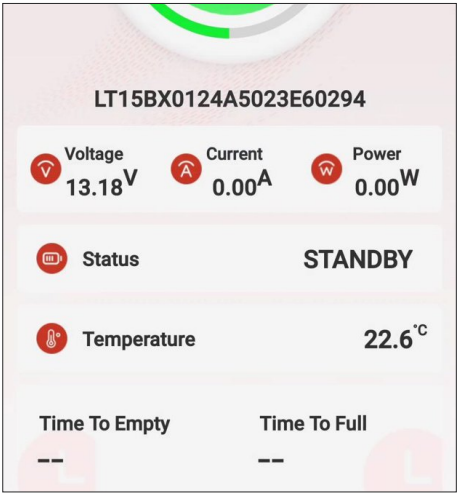
2. To select your battery, click the red icon next to the battery serial number. You can find the serial number printed on the back of your battery. Once the battery has been selected, the red icon will turn grey. Select the back button at the top of the page to return to the main battery summary page.



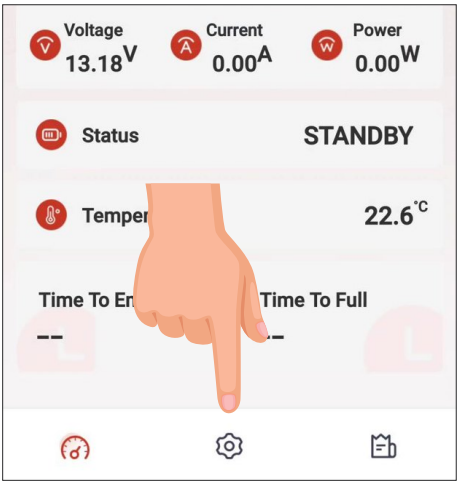


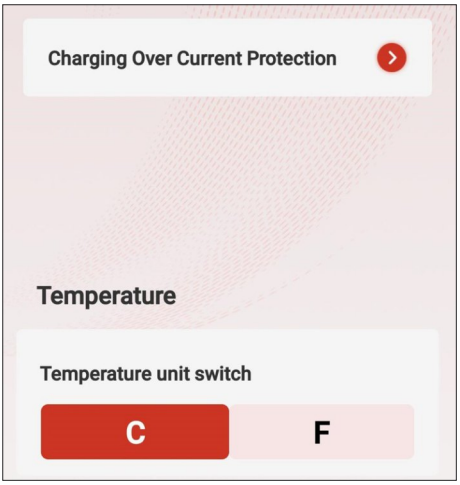
3. The state of charge (SOC), battery voltage, current and average power are shown on the main battery summary page. For detailed information about the battery, click on the battery serial number. The detailed battery information page shows state of charge (SOC), battery voltage, current, average power, status (standby, discharging, charging), battery temperature, time to full and time to empty.



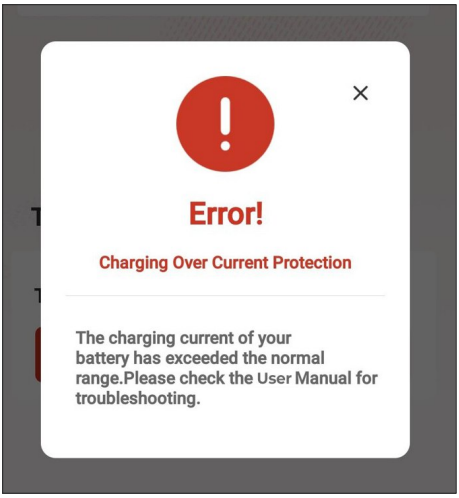


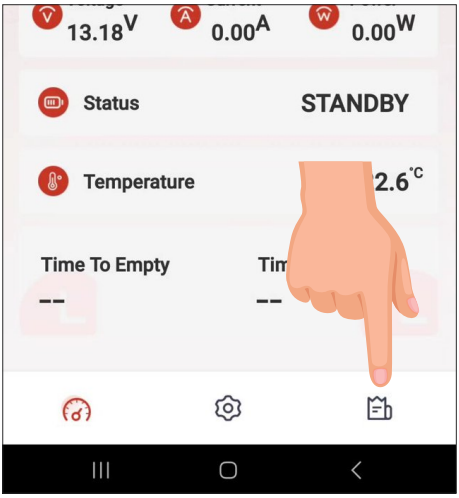
4. For system warning information and to change the temperature units, press the settings icon. Active system warnings will be shown on this page. Select the red arrow for further information. Select the preferred temperature units for display.



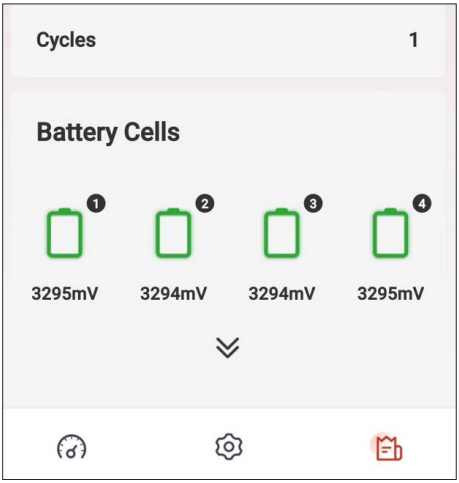


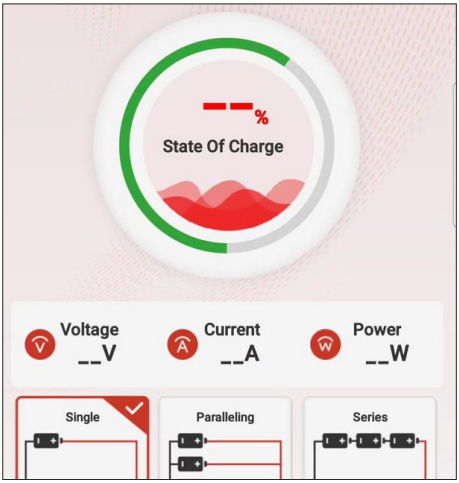
5. Example of further information of a system warning. Select the configuration button battery performance information.





6. The battery performance page shows the battery health, the serial number / name, rated capacity, cycle count and cell voltage information. After disconnecting from the battery, the battery can be reselected from the quick start list on the main page of the app. To reconnect to the battery, press the red plus symbol.



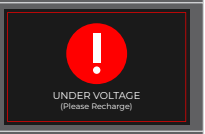
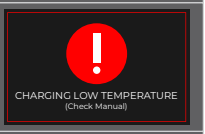
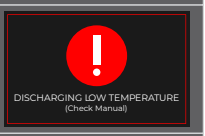
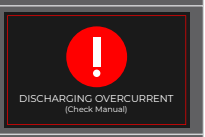
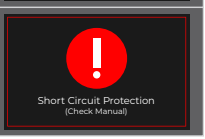


CLEANING INSTRUCTIONS

1. Switch off the battery box and disconnect all devices before cleaning.
2. Use a soft, dry cloth to wipe the exterior of the battery box.
3. For stubborn dirt, lightly dampen the cloth with water. Do not use harsh chemicals or solvents.
4. Avoid getting water or cleaning solution inside any ports or openings.
5. Inspect and clean the connectors and terminals regularly using a dry cloth or soft brush.
6. Allow the battery box to dry completely before reconnecting devices or turning it on.

TROUBLESHOOTING

KICKASS LITHIUM BMS ALARM MODES

ALARM MODE	APP SYSTEM WARNING	LCD SCREEN SYSTEM WARNING
Over Voltage Protection: The voltage of your battery has exceeded the normal range. Remove charger from battery.	Charging Over Voltage Error View Error	
Under Voltage Protection: The voltage of your battery is below the normal range. Connect charger to battery.	Under Voltage Error View Error	
Charging High Temperature Protection: The temperature of your battery has exceeded the normal range. Disconnect all loads/chargers and place your battery in a cooler location.	Charging High Temperature Error View Error	
Charging Low Temperature Protection: The temperature of your battery is below the normal range. Disconnect all loads/chargers and place your battery in a warmer location.	Charging Low Temperature Error View Error	
Discharging High Temperature Protection: The temperature of your battery has exceeded the normal range. Disconnect all loads/chargers and place your battery in a cooler location.	Discharging High Temperature Error View Error	
Discharging Low Temperature Protection: The temperature of your battery is below the normal range. Disconnect all loads/chargers and place your battery in a warmer location.	Discharging Low Temperature Error View Error	
Charging Over Current Protection: The charging current of your battery has exceeded the normal range. Disconnect all chargers from the battery.	Charging Over Current Error View Error	
Discharging Over Current Protection: The discharging current of your battery has exceeded the normal range. Disconnect all load from the battery.	Discharging Over Current Error View Error	
Short Circuit Protection: The battery has short-circuited. Check all wiring and connections for short circuits.	Short Circuit Protection Error View Error	

CONDITION	RECOMMENDED ACTION
Connected device won't power on	• Ensure Isolator is in the ON position • Ensure that the device is properly connected to the port. • Check if the battery box is charged. Check the information via the LCD screen. If it is not illuminated, the battery is fully discharged. Please recharge. • The breaker may have tripped. Disconnect the device and ensure the current draw stays under the rated limit. Once the excess current is removed, the breaker will reset automatically, and the socket can be used again.
Anderson/cigarette sockets/USBs suddenly stopped working	• Ensure Isolator is on the ON position • Check that the combined load on the six Anderson sockets has not exceed 50A or 15A for each cigarette socket / USB combination. If it has, disconnect the devices and reduce the load. Once the excess current is removed, the breaker will reset automatically. Reconnect the device while ensuring that the loads will not exceed rated capacity. • Inspect the connected devices and cables for faults or excessive current draw. • Ensure connectors are fully seated and free of debris.
Battery is not charging while using a device even the battery box is charged	• Ensure Isolator is on the ON position • The connected load might be higher than the load being charged to the battery. Use the LCD screen to monitor if the battery is charging and discharging. • Confirm that the charger or solar input voltage and current are within acceptable parameters. • If using a solar panel for charging, make sure that the panels are well exposed to sun light and do not sit on any shade to maximize capacity. • Check all input cables if properly connected and undamaged.

WARRANTY & SUPPORT INFORMATION

KICKASS LIMITED WARRANTY

Your KickAss product is backed by our limited warranty against defects in materials and workmanship for the applicable warranty period. Warranty periods vary by product - please check the product page or the KickAss Warranty Index for details.

If a fault covered by warranty occurs, KickAss will, at its discretion:

- Repair the product, or
- Replace the product with the same or equivalent model, or
- Provide another suitable remedy in line with Australian Consumer Law (ACL).

Warranty claims may be declined if the issue is caused by:

- Normal wear and tear.
- Improper use, faulty installation, or lack of maintenance.
- Modifications, tampering, or unauthorised repairs.
- Accidents, damage in transit (customer organised), or environmental causes.
- Consumable items, unless defective in materials or workmanship.
- Damage caused by external events such as severe weather (including storms, lightning, hail, or flooding), fire, impact, explosions, vandalism, or theft.

MAKING A WARRANTY CLAIM

1. Visit our Support Portal: supportportal.kickassproducts.com.au
2. Locate your product via the Products & Troubleshooting section.
3. Submit a claim through the product form and follow the guidance from our Customer Service Team.

All warranty claims must include a completed product form, proof of purchase, and clear evidence of the defect or fault. Incomplete submissions or missing information may cause delays in processing and could result in your claim being declined.

Costs from third-party inspections or repairs are not covered unless approved in writing by KickAss.

YOUR RIGHTS UNDER ACL

This warranty is provided in addition to your rights under the Australian Consumer Law. You may be entitled to a replacement or refund for major failures, and to compensation for other reasonably foreseeable loss or damage.

Need Help?
Product Support: support@kickassproducts.com.au
Warranty Claims: warranty@kickassproducts.com.au
Customer Support Portal: supportportal.kickassproducts.com.au

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