

POWERTECH

MB4105

Expansion Battery for S2



Instruction Manual

Please read and save all instructions to ensure safe and effective use of this product.



CONTENTS

Warnings & Safety Information	2
Before First Use	3
Box Contents	3
Product Diagram.....	4
LCD Screen Description	5
Usage Instructions.....	5
Solar Charging	7
FAQ	8
Error Codes.....	9
Maintenance	11
Specifications.....	11
Warranty Information.....	12

WARNINGS & SAFETY INFORMATION

WARNING: The manufacturer is not responsible for any potential injury from misuse

- Read this user manual carefully before using the product to ensure that you completely understand the product and can correctly use it. After reading this user manual, keep it properly for future reference.
- Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document.
- In compliance with laws and regulations, the Company reserves the right to final interpretation of this document and all documents related to this product. This document is subject to changes updates, revisions, or termination) without prior notice. Please visit the official website to obtain the latest product information.
- No compensation for losses caused by the use of non-standard connectors.

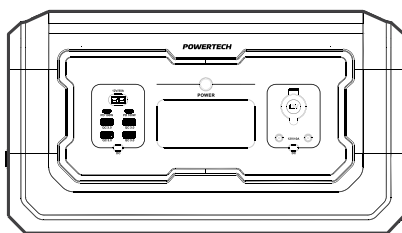
BEFORE FIRST USE

Prior to using your product, please read all the safety and operating instructions thoroughly. Please ensure you follow the steps below before using the product. We recommend you keep the original packaging for storing the product when not in use.

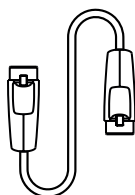
Please pay close attention to the section entitled Warnings & Safety Information. Find a safe and convenient place to keep this instruction manual for future reference.

Unpack the product but keep all packaging materials until you have made sure your new product is undamaged and in good working order. Ensure you have all accessories listed in this manual.

BOX CONTENTS



Smart Extra Battery

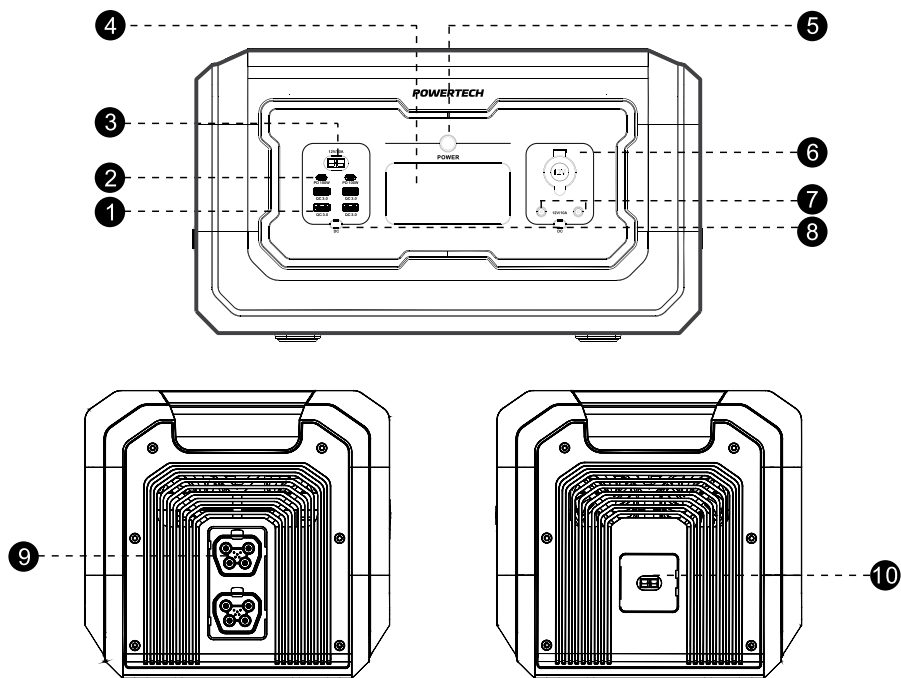


Extra Battery Cable



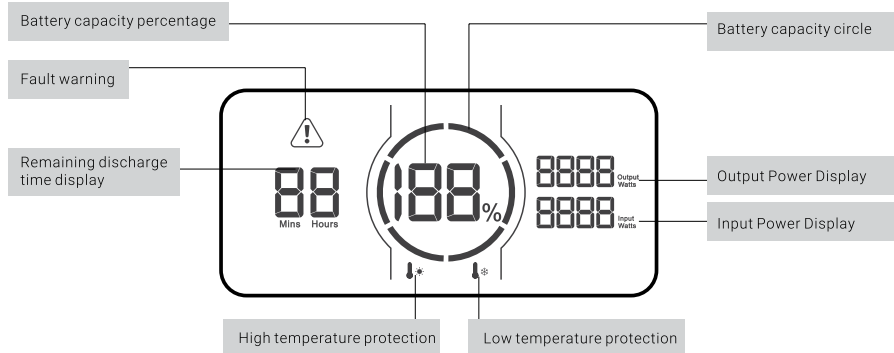
User Manual

PRODUCT DIAGRAM



- | | |
|-----------------------------|----------------------------------|
| 1. USB-A Output Port | 6. Car Charger Output Port |
| 2. USB-C Output Port | 7. 5521 Output Port |
| 3. Anderson Output Port | 8. DC Output Power On/off Switch |
| 4. LCD Screen | 9. Power pack connection port |
| 5. Main Power On/Off Switch | 10. Anderson input Port |

LCD SCREEN DESCRIPTION



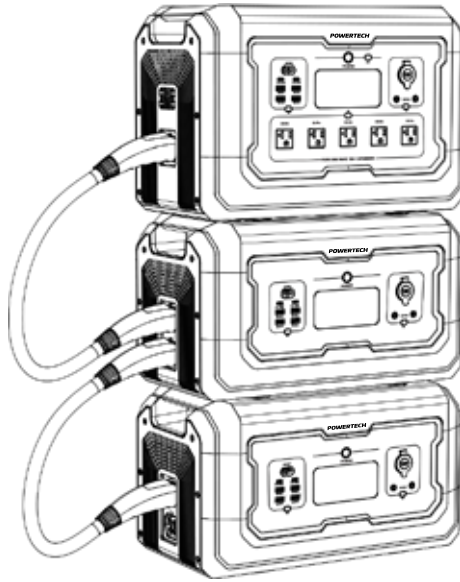
USAGE INSTRUCTIONS

The LCD Battery Capacity Circle indicates the remaining capacity. The capacity circle is divided into six segments, accounting for about 17% ~ 35% ~ 51% ~ 68% ~ 85% ~ 100% of the capacity. The LCD display will wake up automatically when used.

When discharging, the blue capacity segment goes off from the display, indicating the remaining capacity. When charging, the blue battery capacity circle flashes clockwise along the trajectory, which indicates that the current device is in the state of charging, the number on the right side of the energy circle shows the real-time input power at this time. When fully charged, all blue capacity segments will shine and remain stable. After charging, please unplug the charger.

Long press the main power button once to turn on the product, then the LCD screen lights up and the main power indicator becomes breathing white; Press and hold the main power button for at least 3 seconds to turn off the product, meanwhile, the LCD screen also goes off.

After turning on the main power, lightly press the separate button of each part, the LCD screen will light up the corresponding function icon and the function is on; lightly press the separate button again to close the corresponding function icon and the function stops.



NOTE: Please make sure that both the product and the power pack are turned off before connecting.

NOTE: After this product is connected to the power pack, press any of their power buttons, if both of them can be switched on at the same time, then they are connected successfully and can be normally used; if you are using the APP, it will also show the data of the power pack.

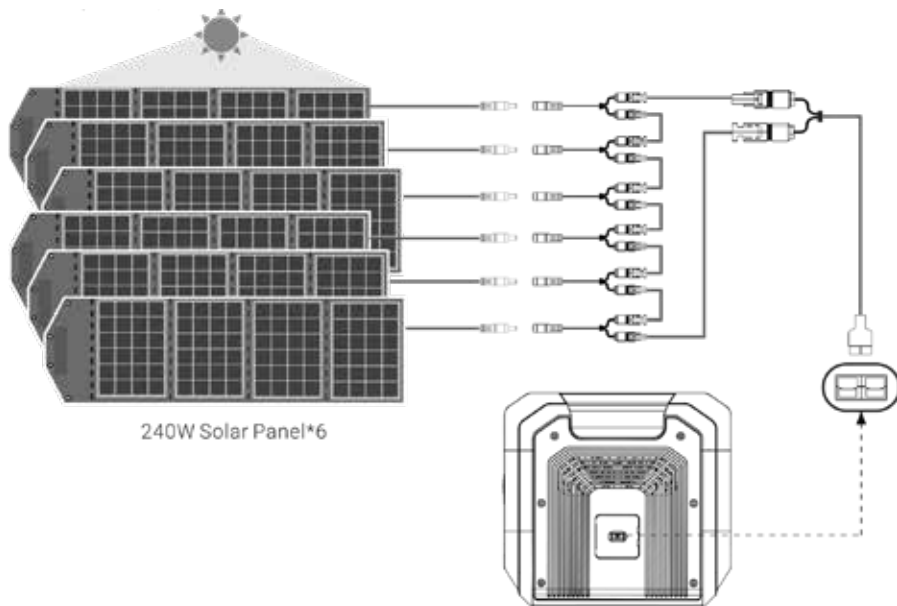
NOTE: Do not connect or remove the power pack directly during the charging and discharging process. If you need to connect or remove the power pack, please turn off the power before operating.

NOTE: Do not use your hands or other objects to touch the metal terminals at the connection port of the power pack. If there are foreign objects attached to the metal terminals, please lightly wipe with a dry cloth.

NOTE: Please connect this product with the specified power pack and cable in strict accordance with the operation specifications. The company is not responsible for equipment damage caused by improper operation.

SOLAR CHARGING

Connect the standard solar panels to the device by using the fittings "Anderson to MC4 cable" x1 and "MC4 to 7909 cable" x6. Up to 6 standard solar panels can be connected to the device, which takes about 1.5 hours to be fully charged.



NOTE: The solar charging cable (MC4-7909 cable) and solar panel need to be purchased separately.

NOTE: When using the matching solar panel to charge this product, please connect it according to the user manual.

NOTE: Before connecting the solar panel, please confirm that the output open circuit voltage of the solar panel is within 150V to avoid damage to the product.

FAQ

1. What battery does the product use?

It uses high-quality lithium iron phosphate batteries(LiFePO4).

2. How long can the product charge my devices?

The charging time is shown on the product's LCD Screen, which can be used to estimate the charging time of most appliances with stable power usage.

3. How can I know if the product is charging?

When it's charging, the remaining charging time will be shown on the LCD Screen. Meanwhile, the charging indicator icon begins to rotate with the remaining battery percentage and the input power shown on the right of the circle.

4. How to clean the product?

Please gently wipe it with a dry, soft, clean cloth or paper towel.












5. How to store the product?










Before storing, please turn off the product first, and then store it in a dry, ventilated place at room temperature. Do not place it near water sources. For long-term storage, please discharge and charge it every three months to extend its battery life.

6. Can this product be taken on the plane?

No.

ERROR CODES

FAULT CODE	FAULT INFORMATION	STATUS	REMARKS
E007	PV input over-voltage and low voltage protection	No PV charging	It will recover automatically when input voltage adjust to the input voltage range
E008	12V30A overload short circuit protection	 flashing, no output	You need to manually press the DC power button to recover
E009	24V auxiliary power overload short circuit alarm	The DC board reports a fault, but does not turn off the output.	Reduce the load on the DC port
E010	Cigarette lighter port overload and short circuit	 flashing, no output  Car  DC	You need to manually press the DC power button to recover
E011	USB-A port overload and short circuit	  flashing, no output	You need to manually press the DC power button to recover
E012	USB-C port overload and short circuit	  flashing, no output	You need to manually press the DC power button to recover
E013	Battery low voltage protection when DC discharge	E013 code flashing, no output	After protection, restart corresponding function keys to restore functions, and recharge it timely
E014	PV charging over-temperature	 PV charging off	After the temperature recovers, the fault disappears automatically, and charging resumes
E015	PV output over-temperature	 flashing, no output	Press the DC button on the left to troubleshoot
E020	BMS communication failure	 flashing, no output	Check BMS communication cable
E021	Set the device aside and wait for the battery voltage to recover automatically	E021 code flashing	Set the device aside and wait for the battery voltage to recover automatically
E022	Single cell of the battery low-voltage	E022 code flashing, turn off the output	Connect the AC charging cable and keep charging until the voltage is normal

FAULT CODE	FAULT INFORMATION	STATUS	REMARKS
E023	The total voltage of the battery is too high	E023 code flashing, but does not turn off the output	Set the device aside and wait for the battery voltage to recover automatically
E024	The total voltage of the battery is too low	 flashing, no output	Connect the AC charging cable and keep charging until the voltage is normal
E025	Battery cell over-temperature	  flashing, no output	Automatically recover when temperature cooling down
E026	Battery cell low-temperature	  flashing, no output	Automatically recover when temperature cooling down
E027	System overload	The AC icon flashes, AC output close, DC output is normal, the AC load is higher than 2600VA or AC+DC load is higher than 2600W	You need to manually press the AC power ON/OFF button to recover
E028	Charging over-temperature	  flashing, device stops input	Automatically recover when temperature cooling down
E029	MOS over-temperature	  flashing, no output	Automatically recover when temperature cooling down
E030	Power pack exceptions	Connect the wrong power pack	

MAINTENANCE

1. Please store the product away from water sources, heat sources, and metal objects.
2. In order to extend the service life of the battery, it is recommended to use or store this product in an environment of 20°C to 30°C.
3. If long-term storage is required, please charge and discharge this product once every 3 months (first discharge to 0%, then fully charge, then discharge to 60% for long-term storage); products that have not been charged or discharged for more than 6 months warranty will not be provided.
4. For safety reasons, do not store this product in an environment above 45°C or below -10°C for a long time.
5. If the product is seriously low on power and idle for too long, the product will enter deep sleep mode, and the product must be charged before use again.

SPECIFICATIONS

Capacity:	2048Wh
Cycle Life:	3500+
Battery Cell Type:	LiFePO4
Dimensions:	460 x 270 x 255mm
Weight:	19kg

Inputs:

PV Anderson: 1 port 2100W Max

Outputs:

Anderson:	12V/30A
DC 12V:	12V/10A
USB-A:	5V/3A; 9V/2A; 12V/1.5A (18W Max)
USB-C:	5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/5A (100W Max)

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.

If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.

This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:

Electus Distribution

Address 46 Eastern Creek Drive, Eastern Creek NSW 2766

Ph. 1300 738 555