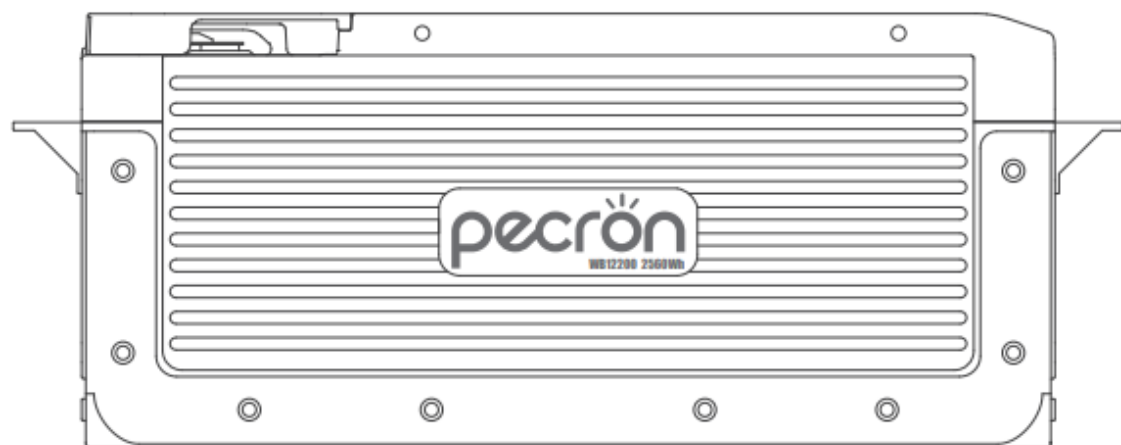




# USER MANUAL

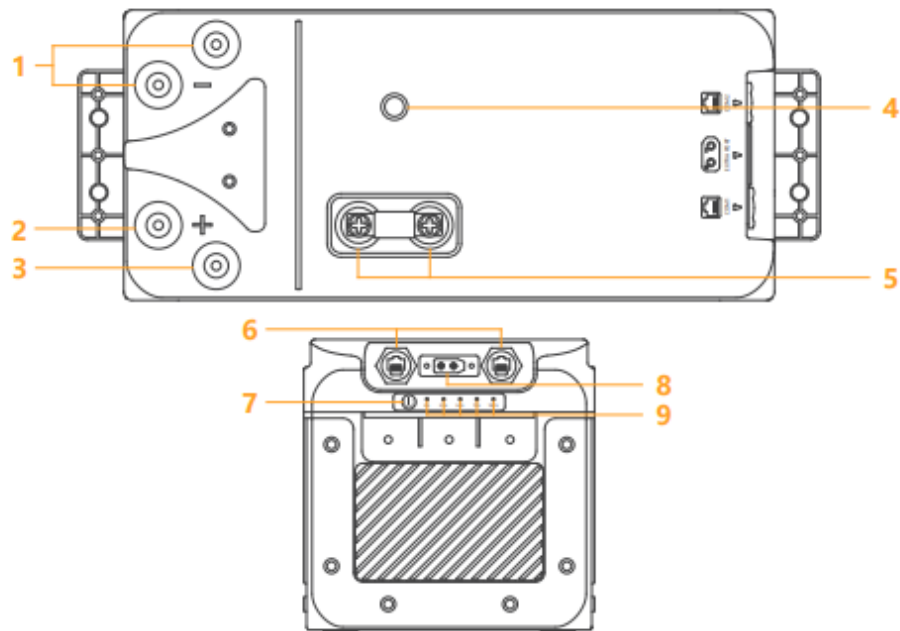
## WB12200



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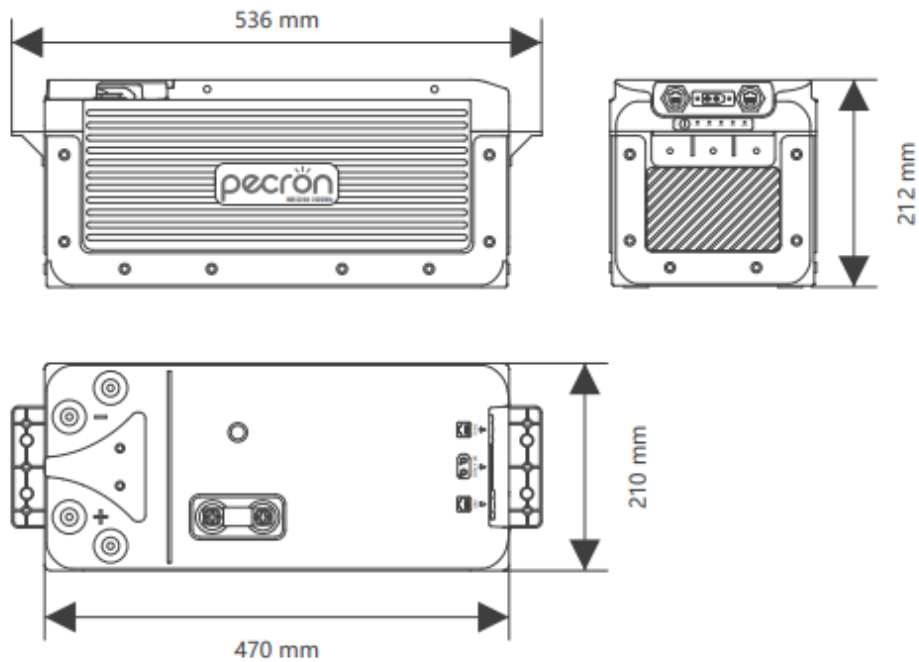
## FUNCTION INTRODUCTION



- 1 M8 Negative (-) Output Terminal
- 2 M8 Positive (+) Output Terminal
- 3 M8 Positive (+) Output Terminal (Default: Disabled)
- 4 Pressure Relief Valve

- 5 Main Fuse
- 6 RJ45 Ethernet Signal Port
- 7 Master Power Switch
- 8 XT90 Output Connector
- 9 Battery Level Indicator

## DIMENSION SCHEMATIC



## SPECIFICATIONS

### GENERAL INFO

Model	WB12200
Capacity	2560Wh(12.8V200Ah)
Net Weight	Around 22kg / Around 48.5lb
Dimension	L536*W210*H212 mm / L21.1*W8.3*H8.3 in
Maximum Operating Altitude	3000m

### DC OUTPUT SPECIFICATIONS

Binding Posts *2	10~14.4Vdc, 200A Max
XT90 *1	50A

### DC INPUT SPECIFICATIONS

Binding Posts *2	14.2Vdc, 100A Max
XT90 *1	50A Max

### BATTERY SPECIFICATIONS

Cell Materials	LFP (LiFePO4)
Cycle Life	Maintains over 80% capacity after 3500 cycles

### OPERATING TEMPERATURE

Discharging Ambient Temperature	0°C ~ 45°C / 32°F ~ 113°F
Charging Ambient Temperature	-20°C ~ 45°C / -4°F ~ 113°F
Storage Ambient Temperature	0°C ~ 45°C / 32°F ~ 113°F

## LED INDICATORS & OPERATION GUIDE



Press and hold to turn on / press and hold to turn off.

Startup: The battery level indicator lights up.

In the off state, press and hold the power button to reset the device and enter pairing mode.

### Battery Level Display (Output Mode)

Battery Level	Indicator Status
88–100%	LEDs <b>1, 2, 3, 4</b> solid, LED <b>5</b> blinking
63–87%	LEDs <b>1, 2, 3</b> solid, LED <b>4</b> blinking
38–62%	LEDs <b>1, 2</b> solid, LED <b>3</b> blinking
13–37%	LED <b>1</b> solid, LED <b>2</b> blinking
6–12%	LED <b>1</b> blinking (slow)
0–5%	LED <b>1</b> fast blinking (urgent)

### Battery Level Display (Input/Charging Mode)

Battery Level	Indicator Status
88–100% (Fully Charged)	LEDs <b>1–5</b> solid (no blinking)
63–87%	LEDs <b>1–5</b> blink sequentially (one after another)
38–62%	LEDs <b>1–4</b> blink sequentially
13–37%	LEDs <b>1–3</b> blink sequentially
6–12%	LEDs <b>1–2</b> blink sequentially
0–5%	LED <b>1</b> blink

### Alarm Handling:

#### 1: Output short circuit alarm

Action: Press and hold the power button to clear the alarm.

#### 2: Input over-voltage alarm

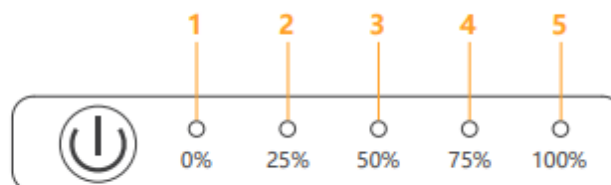
Indicator: Internal buzzer sounds 3 times, indicator light flashes 3 times rapidly.

Action: Stop the input to cancel the alarm.

#### 3: Output overload alarm:

Indicator: Internal buzzer sounds 4 times, indicator light flashes 4 times rapidly.

Action: Press and hold the on/off button to cancel the alarm.



**WB12200 Setup Instructions:**

Hold the power button for 10s to reset Wi-Fi & enter battery serial setup (default:1).

Short-press power to toggle between codes 1~9 and host mode.

ID Code 1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 3	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 4	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 5	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 6	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 7	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
ID Code 9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%
Host Mode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	0%	25%	50%	75%	100%



When multiple devices communicate via Ethernet port,  
each battery ID code must be unique!

## APP FUNCTION

You can connect this product through PECRON APP to view information, control the device and personalize settings.

Long press the on/off key for 10 seconds in the off state, power on to reset the machine and join the pairing mode (3 minutes) At this time, the indicator light is flashing.

iPhone users can search for PECRON in the Apple Store to download and use.

Android users can search for PECRON on Google Play to download and use.



⚠ Wi-Fi 2.4GHz is required for app connection.

## LOW-POWER MODE

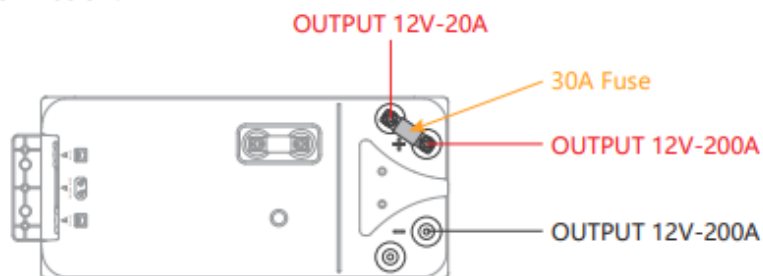
After powering on, if the output current draw remains below 0.5A for 24 hours, the WB12200 will enter low-power mode (output remains active). Normal operation resumes when current exceeds 0.5A.

## SECONDARY FUSE FUNCTION DESCRIPTION

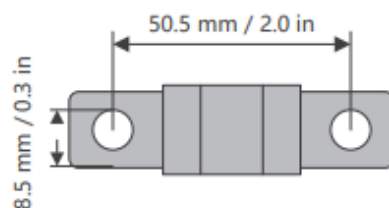
The WB12200 features a main 300A current-limiting fuse.

Additional fuses can be installed to achieve multi-stage or segmented protection.

Example shown below:

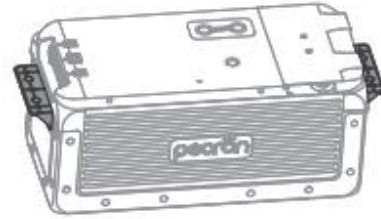


Fuse dimensions are shown in diagram (may be purchased and added as needed)

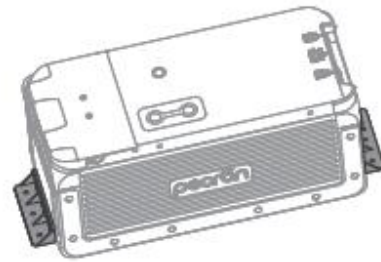


## STACKING & ASSEMBLY INSTRUCTIONS

1: Place batteries on flat ground or shelves.

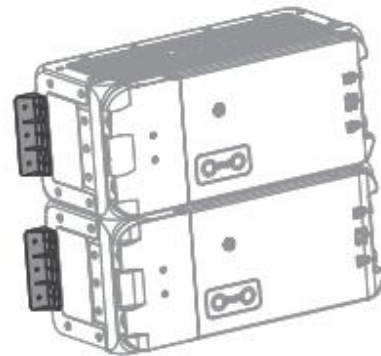


2: Floor Mounting ("Ground Lock" Mode): 1) Remove the handle from the casing. 2) Convert the metal bracket into ground lock mode. 3) Secure the battery to the floor using a drill.

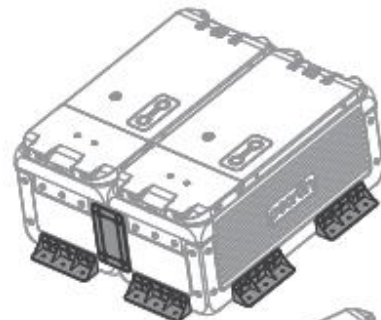


3: Wall Mounting ("Wall Lock" Mode): 1) Remove the handle from the casing. 2) Convert the metal bracket into wall lock mode. 3) Fix the battery to the wall using a drill.

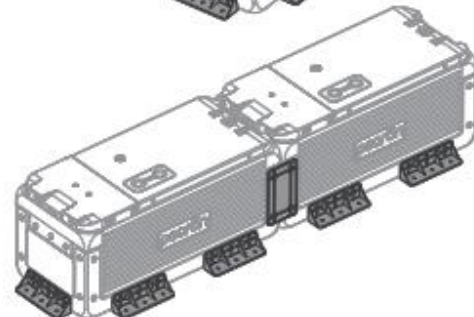
**⚠ Never suspend batteries in mid-air!**



4: For vertical stacking: Use rectangular metal strips as connectors and secure batteries together with a power wrench.

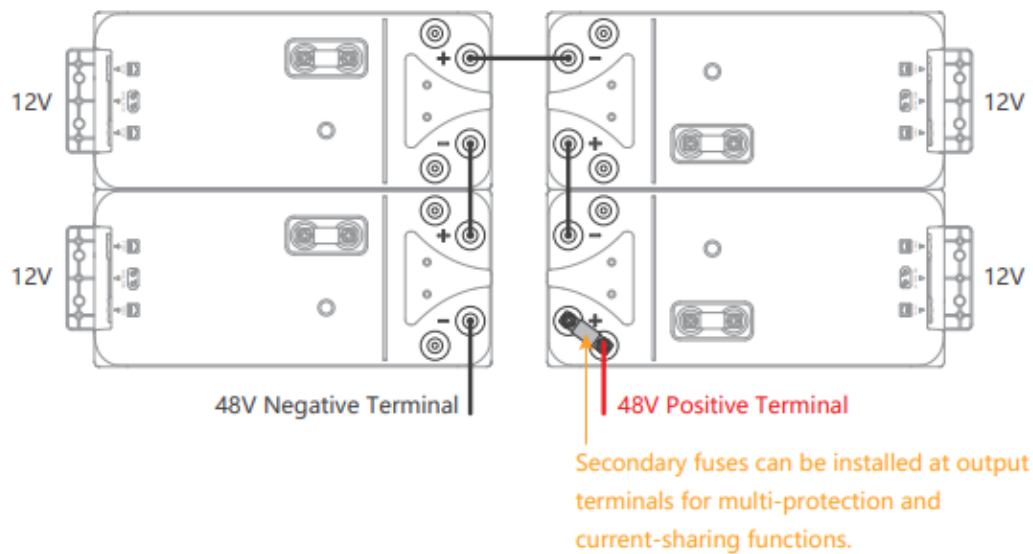


5: For horizontal stacking: Use rectangular metal strips as connectors and secure batteries together with a power wrench.



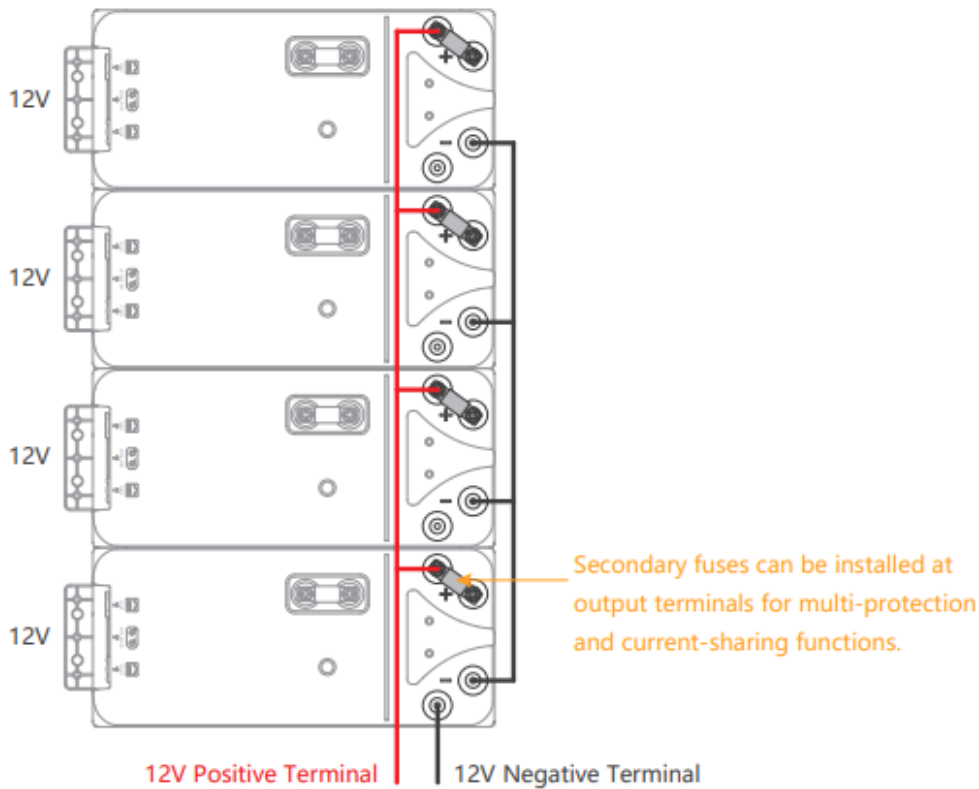


## SERIES CONNECTION GUIDE



- 
- 1: Maximum 4 WB12200 units in series (exceeding this may damage equipment).
  - 2: Power OFF all units before series/parallel connections!
  - 3: Due to battery variances, even two WB12200 in series may not charge/discharge simultaneously.
-

## PARALLEL CONNECTION GUIDE



1: POWER OFF all units before parallel connection!

Live connection may cause sparking - hazardous and may damage terminals.

⚠ 2: Before parallel connection:

- Verify voltage with multimeter (Max 0.2V difference).
- OR fully discharge all batteries first.

## HEATING FUNCTION OF THE BATTERY

1: Battery heating can't be turned on or off manually.

Cannot be manually controlled (automatic activation only).

2: Heating engages ONLY when both conditions are met:

- ① Battery temperature < 0°C (32°F)
- ② Charging is initiated

3: Charging/Discharging disabled if:

- ① Below -20°C (-4°F).
- ② Above 65°C (149°F).

4: The deviation of temperature detection is  $\pm 3^{\circ}\text{C}$  ( $\pm 5.4^{\circ}\text{F}$ ).

## BATTERY COMMUNICATION PORT DIAGRAM & SPECIFICATIONS

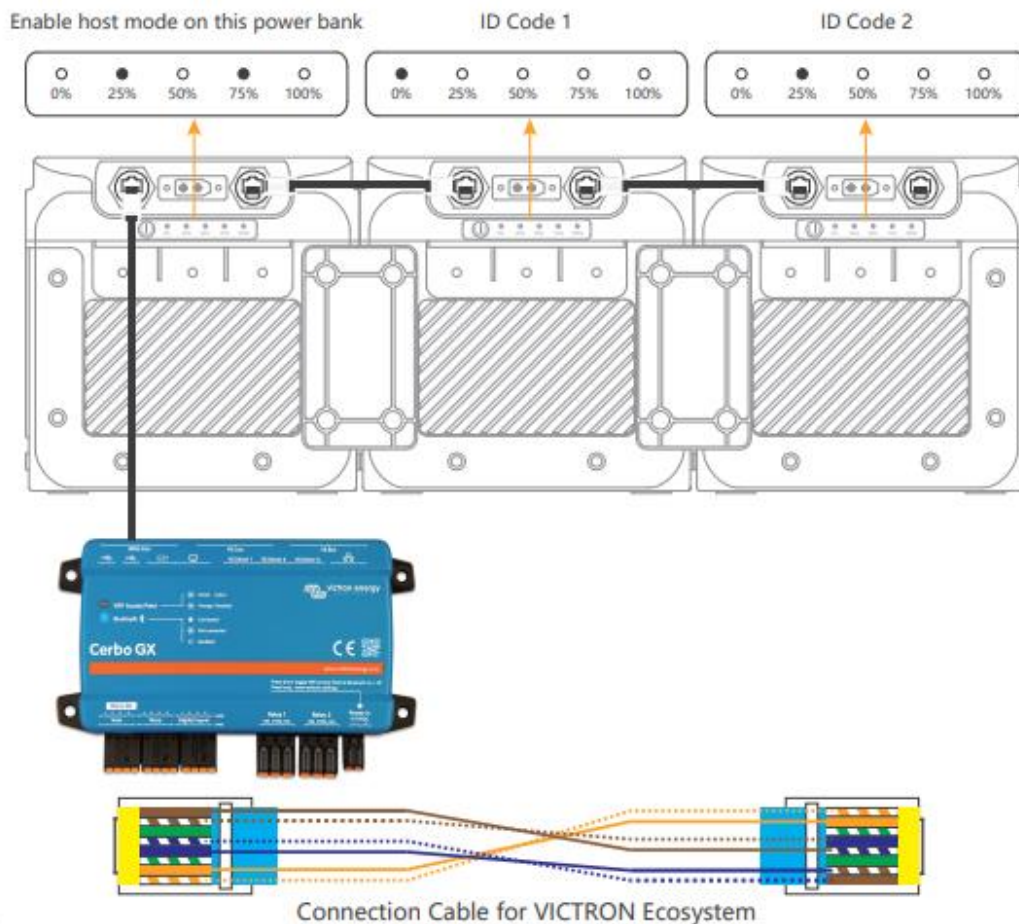


### PIN DEFINITIONS

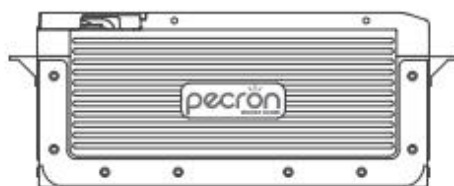
1	RS485-B	5	CAN-L
2	RS485-A	6	HX-
3	/	7	/
4	CAN-H	8	HX+

### Ethernet Port Description

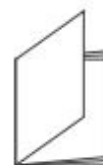
- 1: When multiple devices communicate via Ethernet port, each battery must have a unique ID. Refer to previous section for ID configuration.
- 2: The Ethernet port can connect to VICTRON ecosystem (requires custom cable). See wiring diagram.
- 3: The port supports connection to PECRON central control panel for monitoring/configuration (see panel manual).



## PACKING LIST



PECRON WB12200 \*1



User Instruction \*1



Terminal covers \*1  
(pre-installed)



Fuse cover \*1  
(pre-installed)



Battery handles \*2  
(pre-installed)



Multi-battery connection bars \*2



300A fuse \*1  
(pre-installed)



200A fuse \*1



M8 screws \*6  
(pre-installed)



M4 screws \*16  
(6 pre-installed)



Socket wrench \*1



Cross screwdriver \*1

Additional tools required (not included)



Multi-meter



Protective gloves



Electric screwdriver

## MAINTENANCE AND CARE

1. Store the device in an environment with a temperature range of -10°C (14°F) to 45°C (113°F). The recommended temperature range is approximately 0°C (32°F) to 30°C (86°F) to maintain battery health.
2. Store the product in a dry, cool, well-ventilated, and safe areas to reduce the risk of falls.
3. Ensure the device is kept away from water sources, heat sources, strong magnetic fields, corrosive gas environments, and any flammable or explosive substances.
4. Fully charge the device at least once every two months. Prolonged periods without a full charge may result in inaccurate battery levels and reduced battery consistency.
5. If storing the product long-term, please ensure to perform a charge and discharge cycle (fully charge, then discharge to 60% for storage) every three months to maintain battery health.
6. Do not leave the device uncharged or unused for more than 6 months. Otherwise, the warranty will be void.
7. If the power interface is dirty, please clean it with a dry cloth. Do not use alcohol or other flammable agents for cleaning.

## DISCLAIMER

Please read the user manual thoroughly before using this product, and keep this manual in a safe place for future reference. Failure to follow the instructions for proper set up, use, and care for the device can increase the risk of serious personal injury, death, or property damage. Once you use this device, you are deemed to have understood, recognized and accepted all terms and contents of this document. The user shall be responsible for his own actions and all consequences arising from failure to use the device in accordance with the "User Manual" , or as authorized in PECRON's current product literature.

In compliance with laws and regulations, PECRON reserves all rights for final explanation, and to change these terms and conditions at any time without prior notice. In the event that any revisions are made, the revised terms and conditions shall be posted on our website immediately, please visit our website to inform yourself of any changes.

## WARNING

1. Do not place this product near heat sources, such as open flames or heating furnaces, while it is in operation.
2. Do not allow this product to come into contact with any liquids. Do not submerge it in water or expose it to moisture. Do not use this product in the rain or in damp environments.
3. Do not use this product in environments with strong static electricity or magnetic fields.
4. Do not disassemble this product or puncture it with sharp objects in any way.
5. Do not cause a short circuit in this product using wires or other metal objects.
6. Do not use this product to directly start a vehicle; it is only intended for charging vehicle batteries.
7. Do not use non-official parts or accessories. If replacement is needed, please contact PECRON Baikelong's official sales channels for purchase information.



8. When using this product, strictly adhere to the operating temperature specified in this user manual. Excessively high temperatures may cause the battery to catch fire or even explode; excessively low temperatures may significantly reduce product performance or render it unusable.
9. Do not place heavy objects on top of this product.
10. Do not force the fan to stop spinning during use, or expose the product to poorly ventilated or dusty environments.
11. Avoid impacts, drops, or severe vibrations. If the product is subjected to severe external force, immediately turn off the power and cease use. Secure the product during transportation to prevent vibrations and impacts.
12. If the product accidentally falls into water during use, place it in a safe, open area and keep it away from the product until it is completely dry. The dried product must not be reused and should be disposed of properly according to the disposal section of this document. If the product catches fire, use fire extinguishing equipment in the following recommended order: water or water mist, sand, fire blanket, dry powder, or carbon dioxide fire extinguisher.
13. If the product's interfaces are dirty, clean them with a dry cloth.
14. Handle the product carefully to prevent it from tipping over and causing damage. If the product tips over and suffers severe damage, immediately shut it down, place the battery in an open area away from flammable materials and people, and dispose of it in accordance with local laws and regulations.
15. Store the product in a location inaccessible to children and pets.

## DISPOSAL

1. When conditions permit, please ensure that the battery in this product is completely discharged before placing the product in the designated battery recycling bin. This product contains a battery, which is a kind of hazardous chemical. It is strictly prohibited to dispose of it in a regular rubbish bin. For further details, please follow the local laws and regulations regarding battery recycling and disposal.
2. If the battery cannot be fully discharged due to a malfunction of this product, do not dispose of the battery directly in the battery recycling bin. Instead, contact a professional battery recycling company for further handling.
3. Batteries that have been over-discharged will not be able to start. Please dispose of them as waste.

## EXCLUSIONS

PECRON's warranty does not apply to:

Misused, abused, modified, damaged by accident, or used for anything other than normal consumer use as authorized in PECRON's current product literature.