



USER MANUAL

LiFePO₄ DEEP
CYCLE BATTERY

48V RACK



48V 100Ah Smart



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CAUTION

- Flammable/explosive hazard avoid mechanical impact
- Do not short circuit
- Do not crush
- Do not disassemble
- Do not incinerate
- Battery temperature must be kept below 149°F/65°C
- Do not exceed the charging voltage of 58.4V
- Do not immerse the battery in water
- Do not reverse the polarity of the battery and charger
- Use the appropriate tools when handling the battery
- When connecting batteries in series/parallel, do not use batteries from other brands/types (BMS may not be compatible)
- This battery should be charged using a lithium iron phosphate battery charger with a charging voltage of $57.2V \pm 1.2V$
- Keep the battery away from fire, hazardous materials, or substances

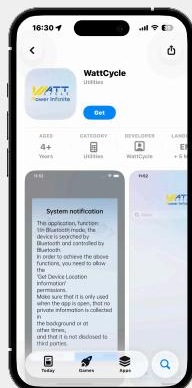
APP Introduction

This application is developed and designed by WattCycle®. It specializes in monitoring lithium batteries, providing real-time status readings such as the voltage, charging and discharging current, alarm prompts, protection status, etc. This allows users to clearly understand the status of lithium batteries and ensure safe use.



You can search "WattCycle" in the App Store or Google Play Store to download and install.

*This app only supports for smart batteries.



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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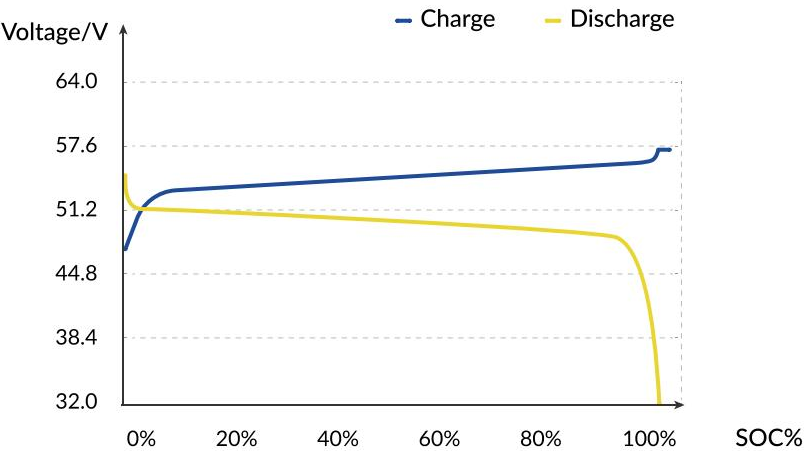
Key Features

- Lithium Iron Phosphate(LiFePO₄) chemistry provides exceptional stability and consistent performance
- Advanced Battery Management System(BMS) ensures product safety and long lifespan
- Supports fast charging and discharging
- Constant voltage and full usable capacity at any state of charge
- IP20 (Ingress Protection Rating)
- The battery casing is made of sheet metal, which is both durable and protective.

External Features



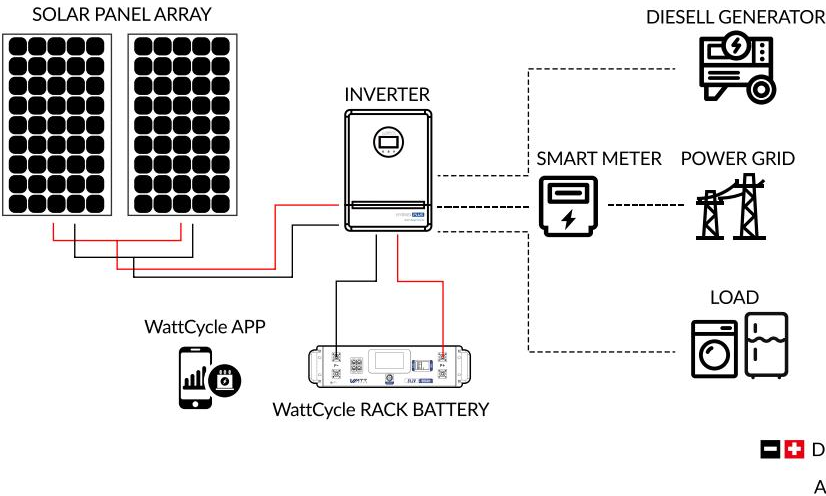
Charge-Discharge Curve @ 77°F/25°C



Sample: 48V 100Ah 100A battery

*Environmental conditions required for all tests: 77+9°F/25+5°C

Connection Diagram





Battery Management System(BMS) Warning and Protection

Content	48V100Ah100A Smart
Standard/Maximum Continuous Charge	50A/100A
Max Continuous Discharge Current	100A
Over-Current Discharge Protection	120A±10A / 10S
Over-Current Charge Protection	110A±10A
Weight	91.9lbs±3% / 41.7kg±3%
Dimensions	19.09 x 17.72 x 5.24(inch) 485 x 450 x 133(mm)



Battery Parameters

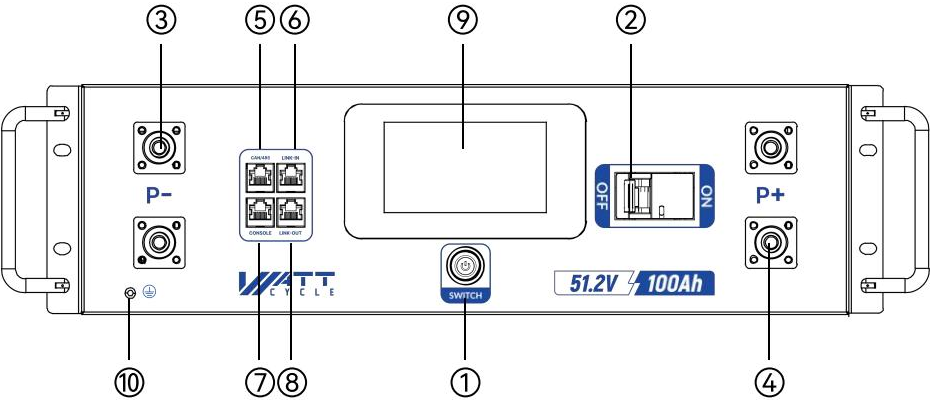
Content	48V100Ah100A Smart
Rated Voltage	51.2V
Standard Charging Voltage	57.2V±1.2V
Shipping Voltage	51.2V~58.4V
Charging High Temperature Protection	122~140°F / 50~60°C
Discharge High Temperature Protection	131~149°F / 55~65°C
Charging Low Temperature Protection	23~41°F / -5~5°C
Discharge Low Temperature Protection	-13~5°F / -25~-15°C
Charging High-Temperature Protection Release Value	113~131°F / 45~55°C
Discharging High-Temperature Protection Release Value	122~140°F / 50~60°C
Charging Low-Temperature Protection Release Value	32~50°F / 0~10°C
Discharging Low-Temperature Protection Release Value	-4~14°F / -20~-10°C
Short Circuit Current Protection	Support



Battery Parameters

Content	48V100Ah100A Smart
Release Condition	Cut Load
Shipping Capacity	60%
Cycle Life	6000@DOD80%
Self Discharge Rate	≤3%/Month
Series & Parallel Connections	1 Series(Max) 20 Parallel(Max)
Case Material	Metal
Ingress Protection Rating	IP20
Battery Pack Certifications	IEC/CE/FCC/UN38.3
Cell Certifications	UL1642/UL2580/UN38.3
Storage Temperature	-4°F~-133°F/-20°C~45°C
Terminal Bolt Size	M8

Function Introduction



①	Mains Switch	Control Switch ON/OFF
②	Air Switch	Disconnect Input and Output
③	Battery Negative	Negative Battery Terminal
④	Battery Positive	Positive Battery Terminal
⑤	CAN/RS485	External Communication
⑥	LINK-IN	Internal Communication or Battery Parallel Use
⑦	CONSOLE	
⑧	LINK-OUT	
⑨	Display Screen	View Real-Time Battery Information and Set Communication Protocols
⑩	Ground Terminal	Connected to a Ground Wire to Provide a Safe Discharge Path for Hazardous Currents

CAN/RS485(LINK-IN/LINK-OUT) Port

CAN/RS485 Communication Terminal (RJ45 port), connect to inverter, follow CAN/RS 485 protocol.

PIN	Definition
Pin 1 Pin 8	RS485-B(to PCS,reserved)
Pin 2 Pin 7	RS485-A(to PCS,reserved)
Pin 3	NC
Pin 4	CANH(to PCS)
Pin 5	CANL(to PCS)
Pin 6	GND

RS232(CONSOLE) Port

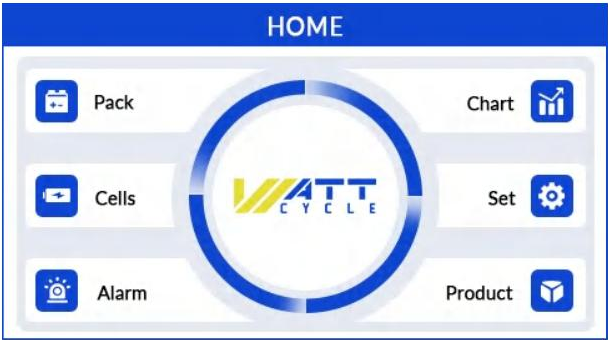
RS232 Communication Terminal (RJ45 port) follow RS232 protocol, for manufacturer or professional engineer to debug or service.

PIN	Definition
Pin 1 Pin 8	GND
Pin 2 Pin 7	RS232_TX
Pin 3 Pin 6	RS232_RX
Pin 4 Pin 5	NC

■ Screen Notes

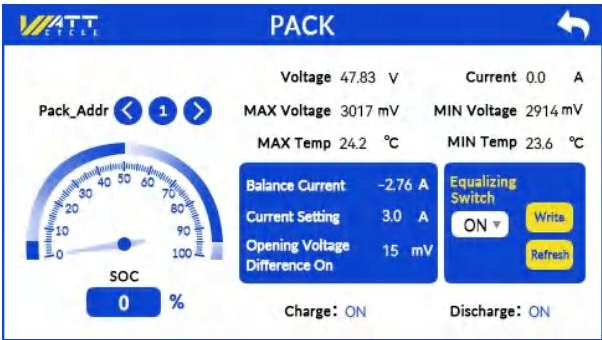
1. Main

The main interface displays the function options, including battery pack information, cell voltage, temperature, BMS alarm status, charge and discharge curve chart, setting and system information.



2. Pack

View the current system voltage, current, SOC, maximum and minimum cell voltage, temperature, balance switch and status, charge and discharge MOS status of the battery pack.



3. Cells

Check the voltage and temperature of the battery cell.

4TT

TECH

CELLS

C_001	2914	mV	C_009	2922	mV	C_017	mV
C_002	3015	mV	C_010	3013	mV	C_018	mV
C_003	2936	mV	C_011	3015	mV	C_019	mV
C_004	3009	mV	C_012	3010	mV	C_020	mV
C_005	5005	mV	C_013	2964	mV	C_021	mV
C_006	2992	mV	C_014	3017	mV	C_022	mV
C_007	3012	mV	C_015	3010	mV	C_023	mV
C_008	2993	mV	C_016	3001	mV	C_024	mV

1

4. Alarm

Battery alarm, fault and abnormal information display to help engineers quickly analyze faults.



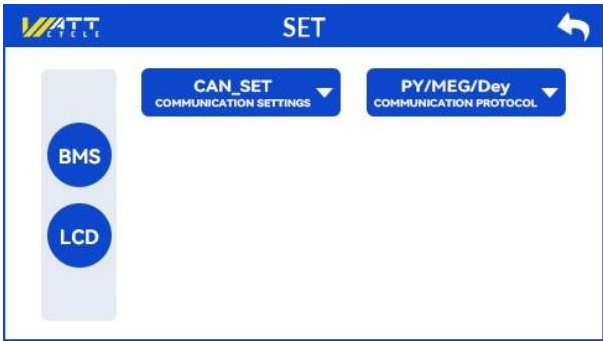
5. Chart

Display the voltage, current and SOC curve of the battery pack during operation.



6. Set

Set the communication protocol between battery pack and inverter and display language.



7. Product Information

Display the internal model and software version of the battery pack.



■ Overcharge Protection and Recovery

1. Cell Overcharge Protection and Recovery

When the voltage of any cell is higher than the set value of the cell overcharge voltage, and the time of duration reaches the cell overcharge delay, the system enters the overcharge protection state, the charging MOS will turn off, and the battery cannot be charged. After the cell overcharge protection, when the voltage of all cells drops below the cell overcharge recovery value, the overcharge protection state is released. It can also be released by discharge.

2. Overall Overcharge Protection and Recovery

When the overall voltage is higher than the overall over-voltage set value, and the time of duration reaches the overall overcharge delay, the system enters the overcharge protection state, turns off the charging MOS, and cannot charge the battery.

When the overall voltage drops below the recovery value of the overall over-voltage protection, the overcharge protection state is released, and it can also be released by discharge.

■ Over-Discharge Protection and Recovery

1. Cell Over-Discharge Protection and Recovery

When the minimum cell voltage is lower than the set value of the over-discharge voltage of the cell, and the time of duration reaches the over-discharge delay of the cell, the system enters the over-discharge protection state, turns off the discharge MOS, and cannot discharge the battery. After the cell over-discharge protection occurs, charging the battery pack can release the over-discharge protection state.

2. Overall Over-Discharge Protection and Recovery

When the overall voltage is lower than the overall over-discharge voltage set value, and the time of duration reaches the overall over-discharge delay, the system enters the over-discharge protection state, turns off the discharge MOS, and cannot discharge the battery. After the overall over-discharge protection occurs, charging the battery pack can release the over-discharge protection state.

■ Over-Current Protection and Recovery in Charging

When the charging current exceeds the charging protection current and the time of duration reaches the over-current detection delay time, the system enters the charging over-current protection state and cannot charge the battery. After the charging over-current protection occurs, it will automatically recover after a delay. If you want to automatically recover or not, you can set the corresponding release time to be longer; the charging over-current state can also be released by discharging.

■ Over-Current Protection and Recovery in Discharging

When the discharge current exceeds the discharge over-current protection current and the time of duration reaches the over-current detection delay time, the system enters the discharge over-current protection state and turns off the discharge MOS. Delayed automatic recovery after discharge over-current occurs, and the corresponding release time can be set longer if automatic recovery is required. Charging can also release the discharge over-current protect condition. Discharge has two-level over-current protection function, which has different response speeds for different current values, and protects the battery more reliably.

■ Temperature Protection and Recovery

1. High Temperature Protection and Recovery in Charging and Discharging

When the NTC detects that the temperature of the battery cell surface is higher than the setting of high temperature protection value during charging and discharging, the management system enters the high temperature protection state, the charging or discharging MOS is turned off, and the battery pack cannot be charged or discharged in this state.

When the temperature of the surface of the cell drops to the high temperature recovery set value, the management system recovers from the high temperature state and turns on the charge and discharge MOS again.

2. Low Temperature Protection and Recovery in Charging and Discharging

When the NTC detects that the temperature of the cell surface is lower than the setting of low temperature protection value during charging and discharging, the management system enters the low temperature protection state, the charging or discharging MOS is turned off, and the battery pack cannot be charged or discharged in this state.

When the temperature of the cell surface rises to the low temperature recovery set value, the management system recovers from the low temperature state and turns on the charge and discharge MOS again.

■ Balance Function

If the balancing switch is on, balancing will begin when the maximum cell voltage differential in the battery pack exceeds this value and will end when it falls below this value. For example, if you set the balancing start voltage differential to 10mV and the balancing stop voltage differential to 5mV, balancing will begin when the cell voltage differential exceeds 10mV and end when it falls below 5mV. (The recommended balancing start voltage differential is 0.005V for cells over 50Ah, and 0.01V for cells under 50Ah.) When the lowest cell voltage is below the set value of 2000mV, active balancing will not begin, even if the cell voltage differential exceeds the set value. The balancing current represents the continuous current used to discharge the high-voltage battery and charge the low-voltage battery during energy transfer. The maximum balancing current represents the maximum current during energy transfer, which does not exceed 3A.

■ Current Limiting Function

When the overcurrent condition is reached, the current limiting function is activated. The current limiting function is deactivated when any of the following conditions is met:

1. The difference between the charging voltage and the battery voltage is less than 0.3V;
2. The charging current is lower than 9.5A;
3. The charging mode is switched to the discharge mode;
4. The battery restarts.

■ Capacity Calculation

The SOC calculation of the battery pack can be accurately performed by integrating current and time. The full capacity and cycle capacity of the battery pack can be set through the host computer, and the capacity can be automatically updated after a complete charge and discharge cycle. It has the function of calculating the number of charge and discharge cycles. When the cumulative discharge capacity of the battery pack reaches the set cycle capacity, the number of cycles increases once.

■ Sleep and Arousal

Sleep: When any of the following conditions is met, the system is in low-power consumption mode.

- a. Monomer or overall over-discharge protection does not release within 30 minutes.
- b. When the on/off switch is off, it will be in the sleep mode after 3 seconds.
- c. The lowest monomer voltage is lower than the sleep voltage, and the time of duration reaches the sleep delay time (while meeting the condition of no communication, no protection, no balance, no current).
- d. The standby time is more than 1440 minutes (no communication, no charge and discharge).
- e. It closes down compulsively through the software of the upper computer.

Before it is in the sleep mode, you need to ensure that the input port is not connected to external voltage. Otherwise, it can not be in the low-power mode.

Arousal: When the system is in low-power consumption mode and meets any of the following conditions, the system exits the low-power consumption mode. And then it will be in the normal running mode.

- a. Connecting to the charger, and the output voltage of the charger should be more than 0.4V of the battery voltage.
- b. The on/off switch is on.

Charging with AC-DC Battery Charger

Check the AC-DC battery charger you intend to use has a dedicated lithium charge setting that meets the below charging requirements. A lot of battery chargers are designed for charging lead-acid batteries only and may not have a suitable charge setting for LiFePO₄ battery.

Charging Tips:

- Use a 58.4V LiFePO₄ battery charger
- Recommended Charging Voltage: 57.2V±1.2V
- The recommended charging current is the battery capacity divided by 5 hours.

(For example, the recommended charging current for 48V100Ah battery is 100Ah/5h=20A, so 48V20A charger would be perfect for a 48V100Ah battery.)

Time at charging currents of 20A and 50A is shown in the following table:

Battery Model Charging Current	48V100Ah
20A	5h
50A	2h



Installation Environment

The battery should be installed in a clean, cool, and dry place, away from water, oil, and dirt. The accumulation of these substances on the battery may cause leakage, resulting in self-discharge and possible short circuits. Adequate ventilation must be maintained to prevent the battery from overheating, and temperature fluctuations between the batteries should be minimized as much as possible.



Preparation

Before installing and handling the battery, it is recommended that the following equipment or tools be available:

- Proper insulation protection equipment and tools
- Multimeter, battery cables
- Battery Charger/Charge Controller



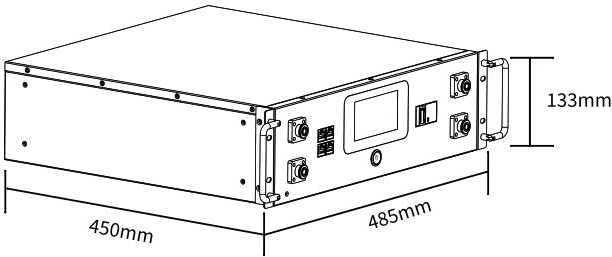
Inspection

Check for visible damage, including cracks, dents, deformations, and other visible anomalies. The top of the battery and terminal connections should be clean, dry and free of dirt and corrosion. Should any issue be detected with the battery, feel free to get in touch with us for prompt assistance.

1. Do not connect the positive and negative poles of the battery together, as doing so may cause a current burst leading to irreversible damage to the system and battery.
2. Please check the polarity before wiring. Polarity reversal will damage the battery.
3. Protect all electrical equipment with circuit breakers, fuses, or appropriately sized circuit breakers as specified by a qualified electrician, licensed installer or regional regulatory authority.

Stacking and Cabinet ESS Installation Instructions

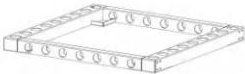
- 1. Installation Instructions
- 1.1 Dimensions



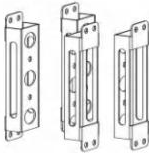
1.2 Stackable ESS Installation Method

STEP 1

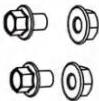
Installation Preparation



Frame



Bracket



M6×12mm Combo Screws

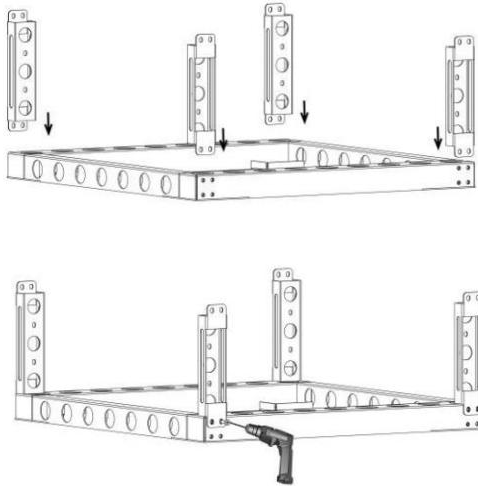
M6 Flange Nuts



M4 Countersunk Screws

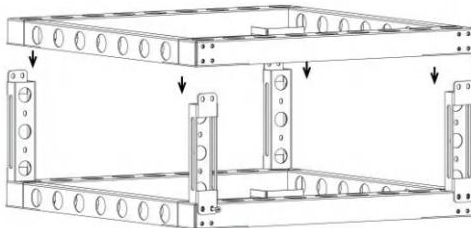
STEP 2 Mount Brackets to Frame

Position the 4 brackets at the four corners of the frame, aligning with the mounting holes. Secure each bracket using M4 countersunk screws and an electric drill.



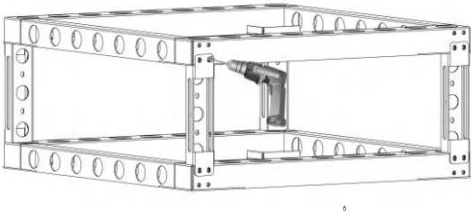
STEP 3 Position the Battery Frame

Place the battery frame onto the installed brackets, aligning with the holes.



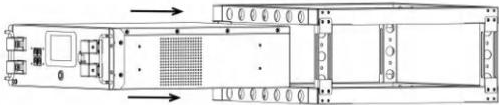
STEP 4 Secure the Battery Frame

Fasten the frame in place using M4 countersunk screws and an electric drill.



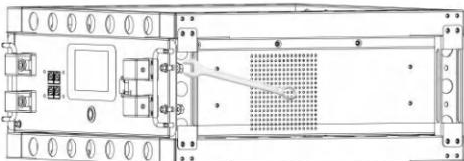
STEP 5 Insert Battery Pack

Slide the battery pack into the fully assembled frame.



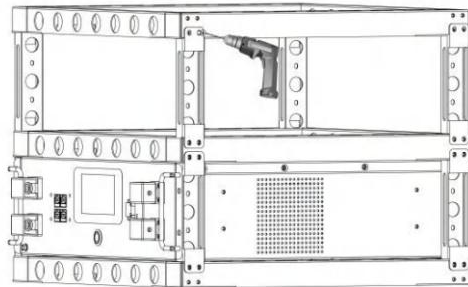
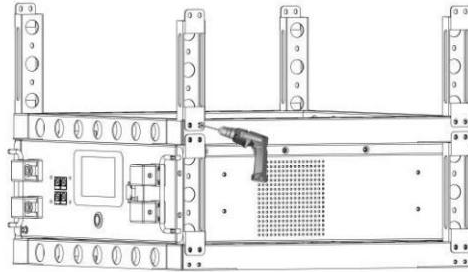
STEP 6 Secure the Assembly

Insert the M6×12mm combo screws and M6 flange nuts through the battery pack's fixing lugs and tighten to lock the entire unit to the mounting frame.



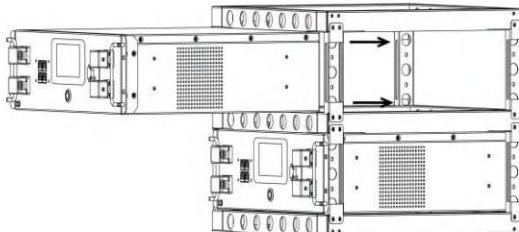
STEP 7 Mount Brackets & Frame

Place brackets on top of the installed single battery packs. Position the mounting frame over the brackets, aligning with the holes, and secure it in place.



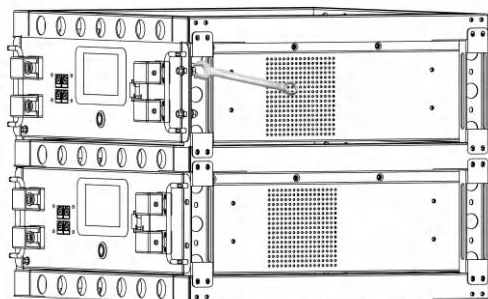
STEP 8 Insert Battery Pack

Slide the battery pack into the mounted frame.



STEP 9 Secure the Assembly

Insert M6×12mm combo screws and M6 flange nuts through the battery pack's fixing lugs and tighten to lock the unit to the frame.

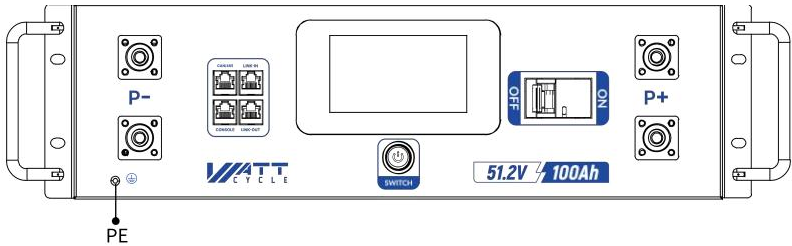
**STEP 10** Repeat for Additional Packs

For multiple battery packs, repeat Steps 7–9 for each unit to complete the installation.

1.3 Wiring Steps

STEP 1

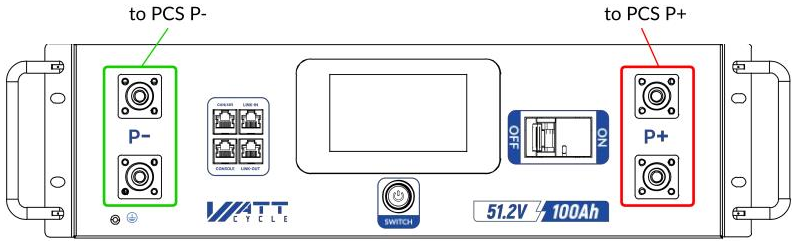
Connected to ground.



Before powering on, be sure to make a permanent, low-impedance connection between the battery's grounding terminal (PE) and the site's grounding system. This is a key step to eliminate static buildup, prevent electric shock, and ensure system stability.

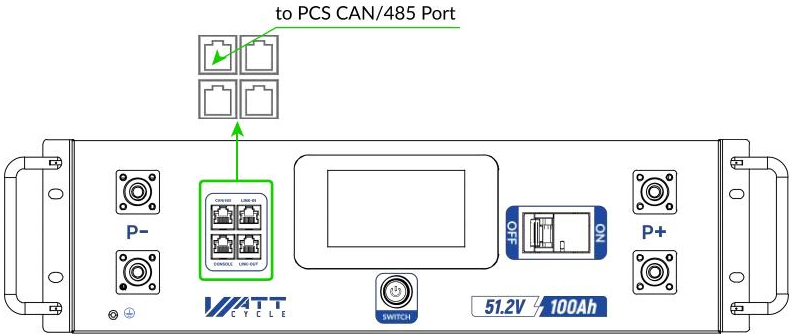
STEP 2

Connecting power cables.



STEP 3

Connect the communication cable.

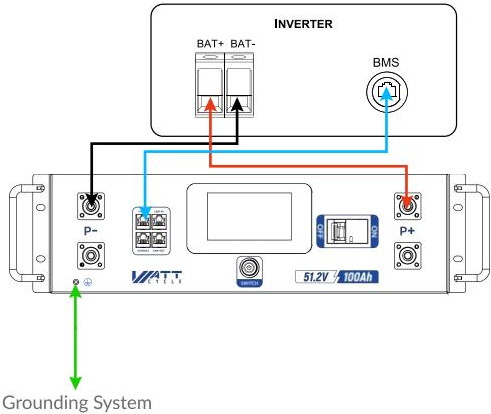


Multi-clusters Connection Method

- 1. Load power exceeding 5kW requires at least 2 units Parallel operation.
- 2. The maximum number of Number of parallel machines is 20. The power of the inverterselected for the battery module must be less than the maximum output power of the battery module.

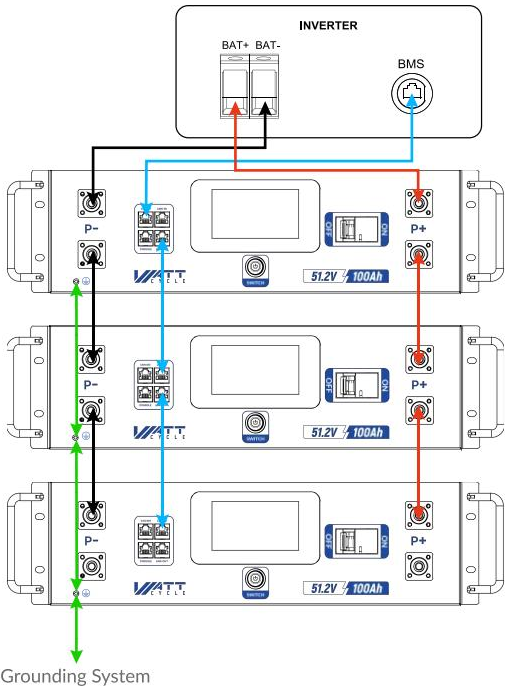
Parallel operation	Load power	Connection mode
1units	Below 5kW	1
2-12units	Below 10kW	2
2-12units	Greater than 10 kW	3

 Danger	Ensure power cables are installed with the correct polarity. A dangerous situation may arise if the polarities are reversed.
 Danger	Do not create a short circuit between the positive and negative terminals of the battery.Ensure the polarity is correct during installation.
 Warning	Incorrect communication cable connection will cause the battery system to operate in unexpected ways which may lead to system failure.



1	 Warning
Wiring method of 1 units module with power below 5kW	

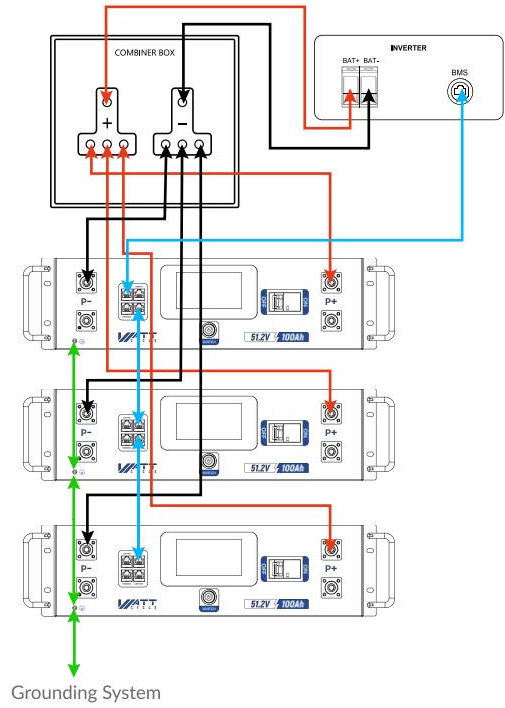
Wire Color Description	
	Red Wire: Positive DC Power
	Black Wire: Negative DC Power
	Blue Wire: Communication Line
	Green Wire: Protective Earth (PE)



2

Warning

For 2 units -12 units is-units module with power below 10kW.
(The number of units in the middle of the diagram is omitted, the length of the two positive and negative poles connecting lines must be the same.)



3

Warning

When using an inverter of 10kW above, the positive and negative ports of each battery must be connected to the combiner cabinet in the wiring method shown in the figure below.
For 2 units -12 units is Greater than 10 kW.
(The number of units in the middle of the diagram is omitted. In order to ensure equal current flow, the length of the positive and negative poles connecting lines must be the same.)

- ↔ Red Wire: Positive DC Power
- ↔ Black Wire: Negative DC Power
- ↔ Blue Wire: Communication Line
- ↔ Green Wire: Protective Earth (PE)

 BMS Function**Over-Charge Protection Voltage(>58.4V)**

If an individual cell voltage exceeds a prescribed threshold during charging, the BMS will stop the charging.

Over-Discharge Protection Voltage(<40V)

If an individual cell falls below the prescribed threshold during discharge, the BMS will prevent further discharge. When the battery voltage reaches over 47.2V, the battery will automatically reconnect after 15 seconds.

Charging High Temperature Protection

The BMS will not allow charging, if the internal temperature of the battery has reached 131°F/55°C.

Discharging High Temperature Protection

The BMS will not allow discharging, if the internal temperature of the battery has reached 140°F/60°C.

Low Temperature Charging/Discharging

The BMS will not allow a charging below 32°F (0°C), but discharge is permitted down to -4°F(-20°C).

Over-Current/Short-Circuit Discharge Protection

If the over-current/short-circuit protection is tripped, the BMS will shut the battery down and will remain disconnected until you remove the battery cables. While the battery cables are disconnected, we suggest taking the battery voltage with the use of a voltmeter. If it reads above 47.2V, reconnect the battery cables. If you are unsuccessful at obtaining a voltage reading above 47.2V, please contact our technical support team: service@wattcycle.com.

Cell Balancing

The BMS activates a passive balancing process at the end of each charge cycle. This ensures that all the cells remain at the same state of charge, which helps pack performance.

The above data can be viewed on Page 04.



Wide Application

Emergency Backup Power Supply

Off-Grid System

Fit for Replacing 48V Lead-acid
Batteries

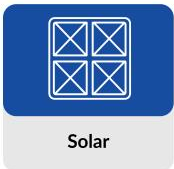
Solar Energy System

Industrial Storage System

Home Storage & Power Wall

Note: Not suitable for starting gasoline engines.

WIDELY USED INCLUDING BUT NOT LIMITED



FAQs

What should I do if the battery is 0 V ?

Don't worry, if the battery is showing 0V, this is potentially due to BMS protection. Please disconnect the battery cable from the load, test the battery voltage. If the voltage is more than 47.2V, reconnect the battery cable. If the voltage is lower than 47.2V, please contact our technical team service@wattcycle.com.

Is it necessary to charge the battery out of the box ?

Yes, you need to fully charge the battery. NOTE: Please also fully charge the battery if you want to connect the batteries in series or parallel.

How can I check the battery voltage ?

If you don't have a battery monitor, you can use a multimeter to monitor the voltage.

Can the battery be mounted in any position ?

You can mount our battery in any position. Please make sure to secure and protect the terminals when mounting.

FOR MORE FAQs PLEASE VISIT:



www.wattcycle.com

Warranty



Please Scan the QR Code to Register for the 5-Year Warranty.

Not Covered by Warranty:

- Damage caused by insufficient or improper fastening.
- Improper installation, use, maintenance, or service.
- Loose battery terminal connections.
- Series connection of more than 4 batteries (48V above) or parallel connection of more than 4 batteries.
- Reverse polarity connection.
- Improper storage conditions defined in the battery user manual.
- Any short circuit caused by accidentally, intentionally, or unintentionally connecting the positive and negative terminals.
- Damage caused by impact, accidents, collisions, or drops.
- Insufficient/overcharging of the battery as defined in the battery user manual.
- Use in conjunction with other third-party products.
- High resistance caused by terminal corrosion, poor crimping, or undersized cables.
- Battery failure caused by electrical system malfunctions. Modification of the product without the explicit written consent of the manufacturer.
- Use of the battery for applications beyond its design and intended use, including repeated engine starting or consuming more amperes than the battery's rated continuous discharge to meet their respective specifications.
- Batteries left uncharged for more than 1 year (batteries should be charged regularly).
- Batteries used in commercial applications that cycle to a discharge depth of 80% or more within 24 hours.
- Force majeure, including fires, typhoons, floods, or earthquakes.
- Buyers are responsible for any damage caused by improper operation or misuse of our products and/or failure to follow safety guidelines.





After-Sales Service

If you need any after-sales service for the product, please contact service@wattcycle.com.
We will provide you with the necessary assistance.



How to Store the Battery?

We recommend bringing the batteries to a 50% state of charge. Then, disconnect the batteries from any loads by removing the negative cable from one of the batteries. On average, the batteries lose $\leq 3\%$ capacity per month at 77°F/25°C. This is subject to an increase in capacity loss if stored in extreme environmental conditions.

- **Disposal and Recycling**

Ensure that the battery is properly disposed of in accordance with the laws and regulations in your area.

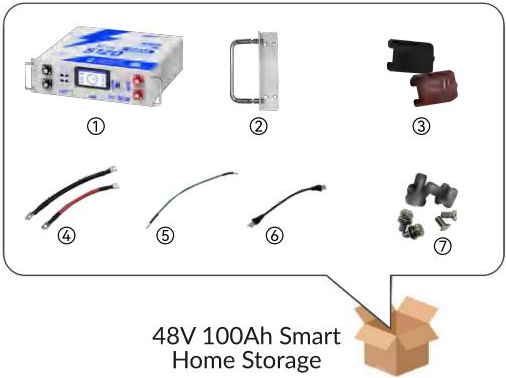
This product contains lithium-ion batteries and other recyclable materials.

We strongly encourage our customers to recycle used batteries.

- **Packing List**

Attention
Check the following before signing off the product: 1. Check whether the outer packaging is broken, deformed, soaked in water and other factors that may cause battery damage. Do not open the package and deal with the dealer. 2. Check whether the model and quantity of equipment are consistent with the order. If not, please contact the distributor for treatment. 3. Check whether the accessories in the package are consistent with the packing list. If not, contact the distributor for treatment.

 Packing List



NO.	Name	Quantity
1	Battery Module	1
2	Handles	2
3	Insulator Caps	2
4	Positive and Negative Pole Power Lines	2
5	14#AWG Ground Wire	1
6	Communication Network Cable	1
7	M4*8mm Hanging Ear Screws	4
	M5*8mm Handle Screws	4
	M8*16mm Positive Termina and Negative Terminal Screws	4



Dear Valued Customer,

Thank you for choosing WattCycle lithium batteries! We sincerely appreciate your support and warmly welcome your feedback.

At WattCycle, we are dedicated to a user-centric and innovative approach, providing high-performance and eco-friendly lithium battery solutions to meet energy needs across various applications. We offer unique competitive advantages in materials, craftsmanship, technology, design, safety, after-sales service, warranty periods, and pricing. Your choice is our greatest support and encouragement.

With infinite energy and a commitment to sustainability, WattCycle is committed to creating a cleaner, bluer sky. We hope we can work together to contribute to a greener planet in the future.

Thank you once again for your trust in WattCycle. We always welcome you to share your experiences or any feedback with us.

Wishing you a pleasant experience!

The WattCycle Team

