For more product information, please visit our official website. To use the product, please scan the following QR code to download the application software.

Google Play Store

APP Store

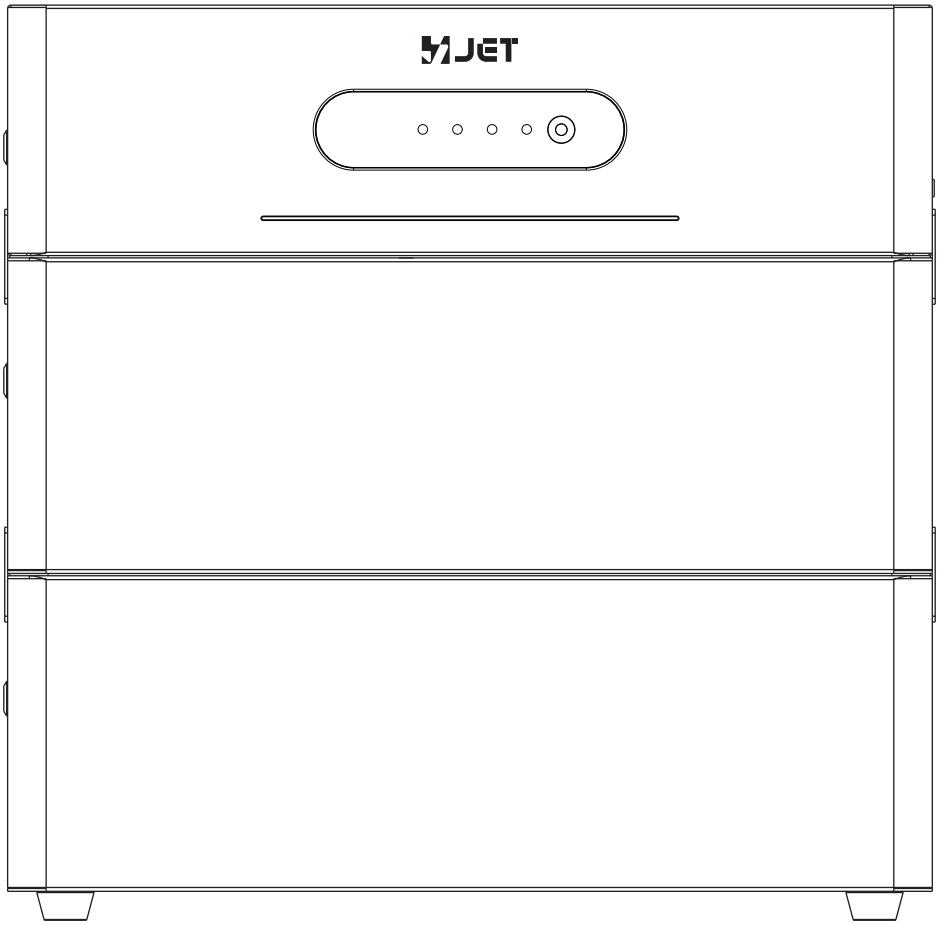
Website: www.jydet.com

E-Mail: support@jyjet.com

GreenArk

Energy Storage System

User Manual



Model: GreenArk Pro JMSS-2400
GreenArk JMSSAC-2400

Content

I . Warning

	This symbol indicates the presence of high voltage and risk of electric shock.
	To prevent electric shock or injury: Do not touch or service the inverter for 5 minutes after it has been shut down or disconnected from the grid.
	Note: Follow all operational instructions.

II . About This User Manual

This user manual covers the unpacking, product overview, installation, electrical connection, description of buttons and indicators, customer service, and safety guidelines for the GreenArk Pro JMSS-2400 and GreenArk JMSSAC-2400 (hereinafter referred to as JMSS-2400/JMSSAC-2400).

Product Definitions:

JMSS-2400	Hybrid Inverter: Capable of accessing photovoltaic systems, battery storage systems, household loads, and grid power.
JMSSAC-2400	AC-coupled Inverter: Connects to battery packs, household loads, and grid power.
JMSSB-2600	Designed to operate in conjunction with the above-mentioned inverters, utilizing semi-solid state LFP (Lithium Iron Phosphate) cells.

⚠ Notice:

* The difference between models JMSS-2400 and JMSSAC-2400 is that the JMSS-2400 features a PV input port, while the JMSSAC-2400 does not.
* A single JMSS-2400/JMSSAC-2400 supports installation of up to 6 JMSSB-2600 expandable battery packs.
* JMSS-2400 and JMSSAC-2400 can be used with smart meters and smart plugs.
* The device's default factory configuration sets the maximum grid-tied power at 800W. When connected to a smart meter, the maximum grid-tied power can be adjusted up to 2400W.

III. Unpacking

3.1 Pre-Installation Inspection

Inspecting the Outer Packaging

Before opening the package, inspect the outer packaging for damage such as holes, cracks, etc., and verify the product model. If any damage is found or the product model does not match the requirements, do not open the package and contact your local dealer.

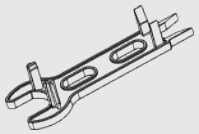
Inspecting Delivered Goods

After opening the package, check that all delivered goods are undamaged and accessories are complete. If any items are missing or damaged, contact your local dealer.

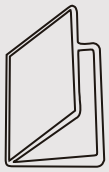
3.2 Micro Hybrid Inverter Packing List (Model:JMSS-2400/JMSSAC-2400)

1* Micro Grid Energy Storage System

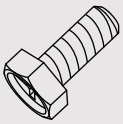
4* Rubber Gasket For The Bottom Of The Battery



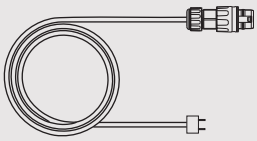
1* Socket Wrench
(to remove MC4 connector & AC Power Cord connector)



1* User Manual



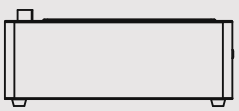
4* M5×16 Combination



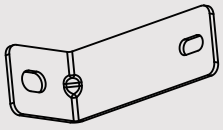
1* AC Power Cord

⚠ Notice:
The AC Power Cord is a customized product available in various lengths.

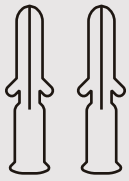
3.3 Battery Pack Packing List (Model: JMSSB-2600)



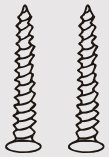
1* Expandable Battery Pack



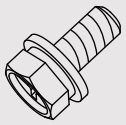
2*L-Shaped Wall Bracket



2* Screws Bolt



2*M5x40 Combination Philips-solt Screws



6* M4x10 Combination

2*Metal Fixed Gasket

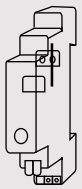
⚠ Notice:

Supports installation of **up to 6** JMSSB-2600 expandable battery packs.

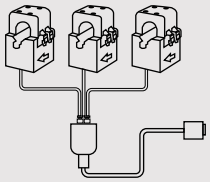
3.4 Optional Accessories

(1) Smart Meter (Model: Pro EM 50/ Pro 3EM 120A)

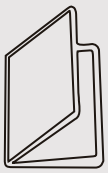
Installed in the home electrical panel to monitor household appliance electricity consumption and track the grid-tied status of JMSSB-2600 intelligent charging/discharging in real-time.



1*Smart Meter

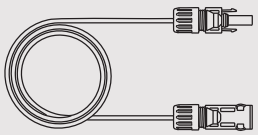


Current Transformer



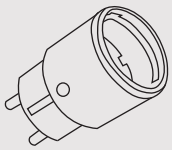
1*User Manual

(2) JET PV Connection (Exclusively for JMSS-2400; JMSSAC-2400 does not require this component)



4*PV Connection Cable

(3) Smart Plug (Model: Shelly Plug S Gen 3)

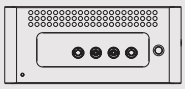


Shelly Plug S Gen 3

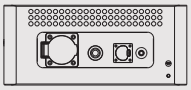
IV. Overview

4.1 Product Overview

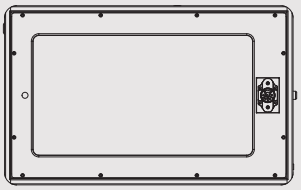
Inverter Front View



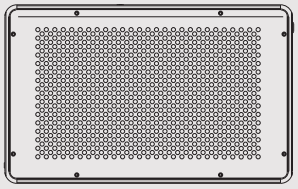
Inverter Left Side View



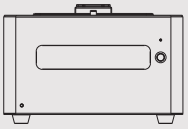
Inverter Right Side View



Inverter Bottom View

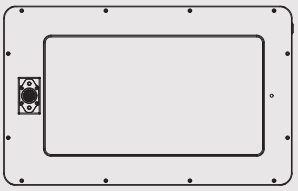


Inverter Top Ventilation Mesh

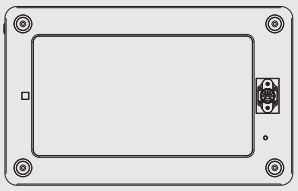


Battery Pack Left Side View

Battery Pack Front View

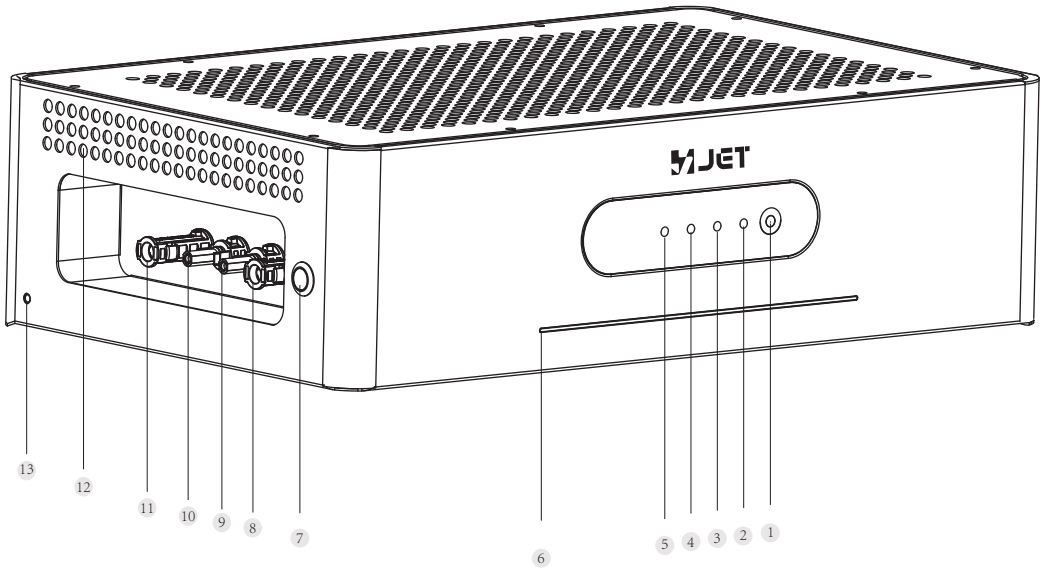


Battery Pack Top View

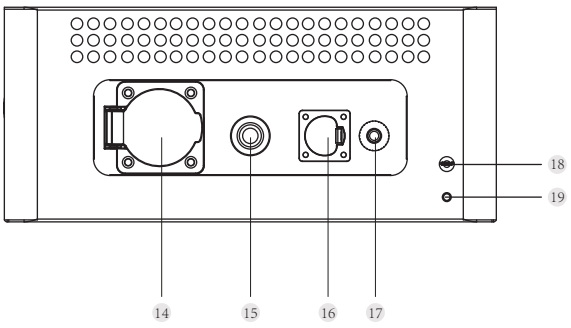


Battery Pack Bottom View

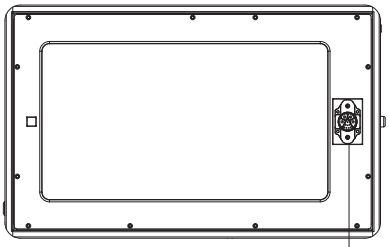
Inverter

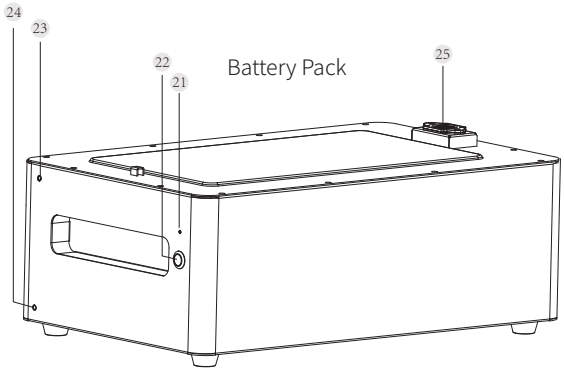


Inverter Right Side

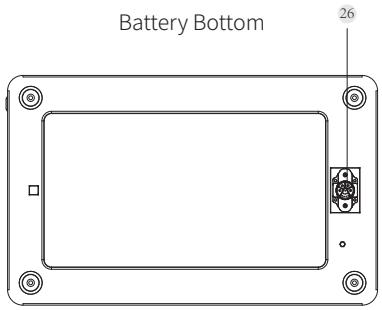


Inverter Bottom





Battery Bottom

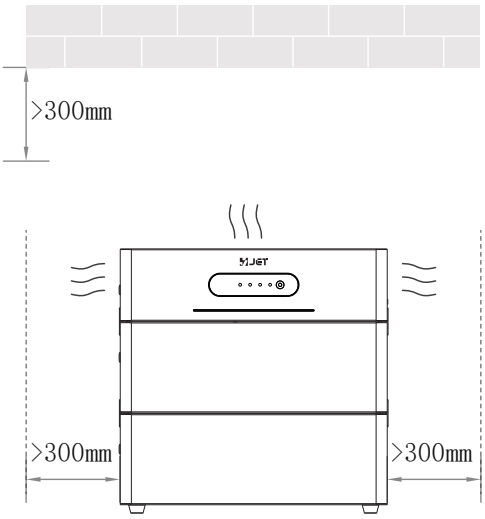


Position	Name	Function
1	WiFi Reset Button	Press once to reset WiFi connection
2	WiFi Indicator	Blue solid: Communicating with device Blue flashing: Power-on or reset initialization (2 seconds)
3	Inverter Indicator	Green solid: Grid-tied output/Green flashing: Inverting output
4	Charge Indicator	Yellow flashing: Fast charging/Yellow solid: Float charging
5	Fault Indicator	Red flashing: Fault condition
6	Battery Level Indicator	Power capacity display
7	Inverter Power Switch	Press to turn on/off
8	PV2 Positive Terminal	Connect to PV module input
9	PV2 Negative Terminal	Connect to PV module input
10	PV1 Negative Terminal	Connect to PV module input
11	PV1 Positive Terminal	Connect to PV module input
12	Ventilation Grilles	Thermal dissipation
13	Mounting Screw Holes	For securing adjacent units
14	Critical Load Output	Connect to essential household circuits
15	WiFi	/
16	Grid-tied AC Port	Connect to wall outlet
17	Overload Protector	Cuts power during overload; manual reset required
18	Grounding Terminal	Equipment grounding point
19	Bottom Interface Screw Holes	For securing to lower units
20	Inverter Bottom Interface	Interlocks with battery pack for power transfer
21	Battery Pack Status Indicator	Green solid: Normal operation Red flashing: Warning alert/Red solid: Fault protection activated
22	Battery Pack Power Switch	Press to turn battery pack on/off
23	Mounting Screw Holes	For securing during installation
24	Mounting Screw Holes	For securing during installation
25	Battery Pack Top Interface	Stacking connector for upper units
26	Battery Pack Bottom Interface	Stacking connector for lower units

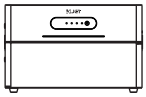
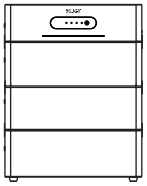
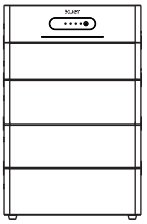
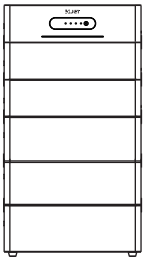
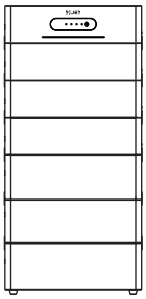
V . Device Installation

5.1 Selecting the Installation Location

* Do not place the equipment in direct sunlight, near heat sources, or close to explosive materials.
* Do not install within 500 meters of coastlines or in areas affected by sea wind. Ensure the installation site is free from potential hazards such as rain exposure or snow accumulation.
* Maximum installation altitude: 2000 meters.
* Maintain at least 300mm clearance above and on both sides of the host unit for adequate heat dissipation and electrical insulation.
* Strictly prohibit touching the heat dissipation vents or surrounding areas on the top of the equipment. Do not place any objects on the equipment top, ensuring all heat dissipation surfaces remain unobstructed.

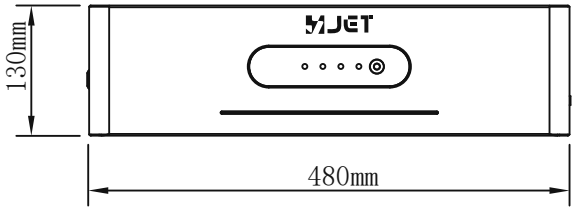


(1) Select an appropriate installation space according to the equipment configuration to be installed:

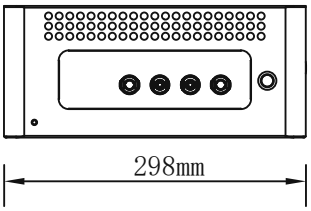
JMSS-2400 JIMSSAC-2400						
Extension Battery	1	2	3	4	5	6
Total Height	310mm	475mm	640mm	805mm	970mm	1135mm
Energy	1*2600Wh	2*2600Wh	3*2600Wh	4*2600Wh	5*2600Wh	6*2600Wh

(2)Dimensions(JMSS-2400/JMSSAC-2400)

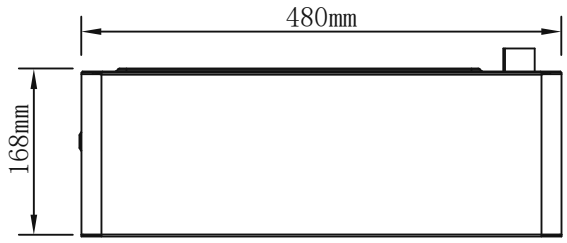
Inverter Front Dimensions



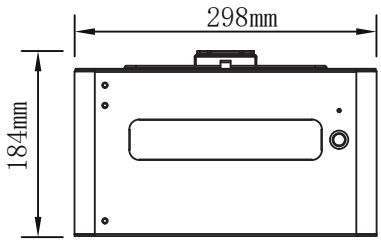
Inverter Side Dimensions



Expandable Battery Pack(JMSSB-2600)



Battery Pack Front Dimensions

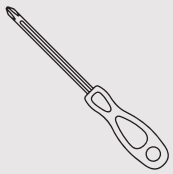


Battery Pack Side Dimensions

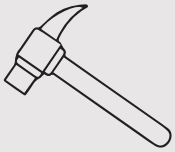
5.2 Installation Tools

⚠ Notice:

Product packaging does not include the following installation tools. Ensure you have prepared these tools prior to installation and electrical connection.



Phillips screwdriver



Hammer

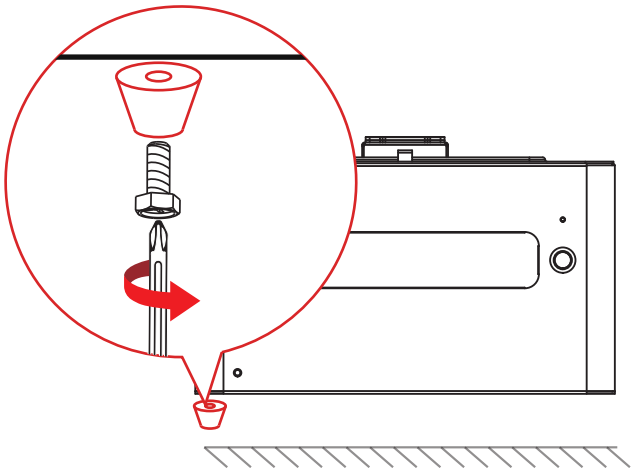
Drill (screw torque: 2N·m)

Insulating gloves

5.3 Installation

The installation steps below use one JMSS-2400/JMSSAC-2400 unit and one JMSSB-2600 battery pack as an example:

(1) Locate the four rubber feet pads in the JMSS-2400/JMSSAC-2400 packaging. Using M5x16 screws install them on the designated positions at the bottom of the expandable battery pack JMSSB-2600. Place the battery pack on the floor near a wall.



(2) • Remove the bottom cover plate from the JMSS-2400/JMSSAC-2400 unit.
• Remove the top cover from the battery pack.
• Align the bottom interface of the JMSS-2400/JMSSAC-2400 with the top interface of the battery pack and dock/stack them.

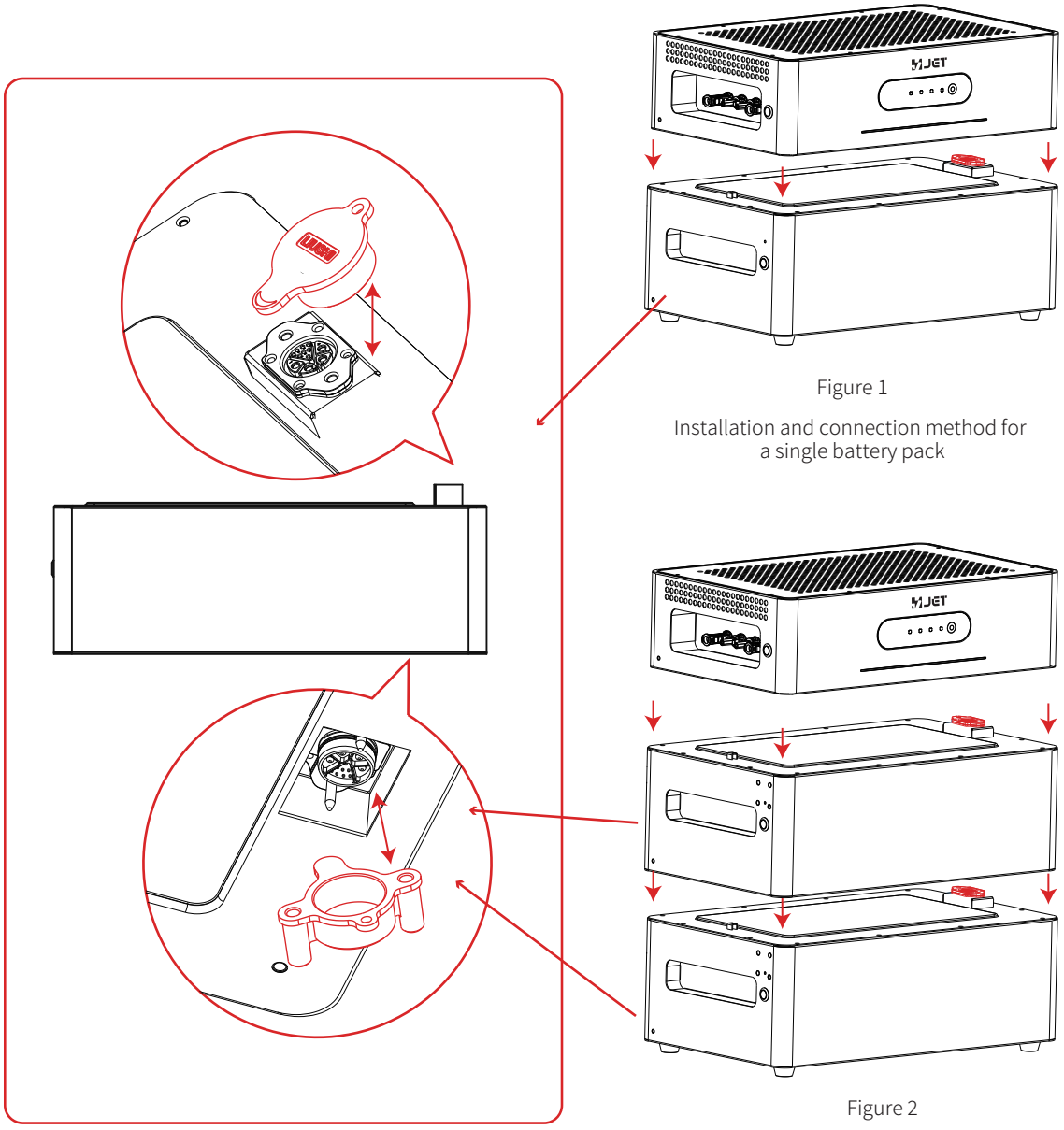


Figure 1

Installation and connection method for a single battery pack

Figure 2

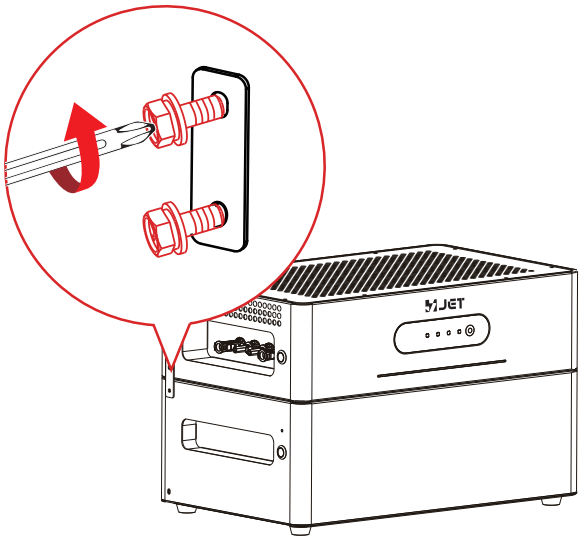
Installation and connection method for multiple battery packs

⚠ Notice： For multiple battery packs:

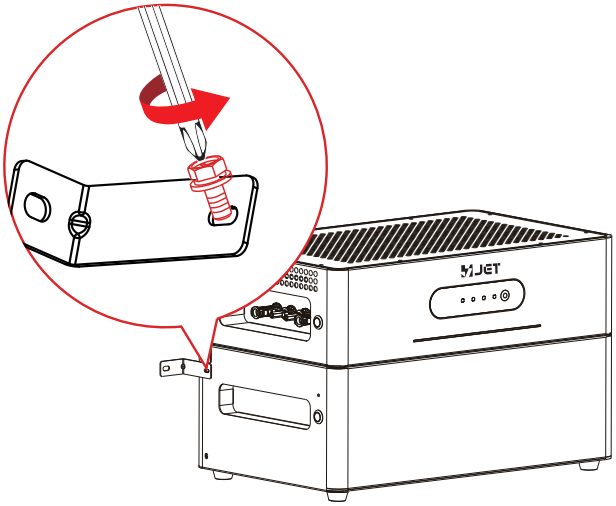
- Remove all top/bottom covers and rubber plugs from interfaces.
- Stack packs sequentially by aligning interfaces.

  Exception: The bottom-most pack requires neither cover removal nor rubber plug extraction.

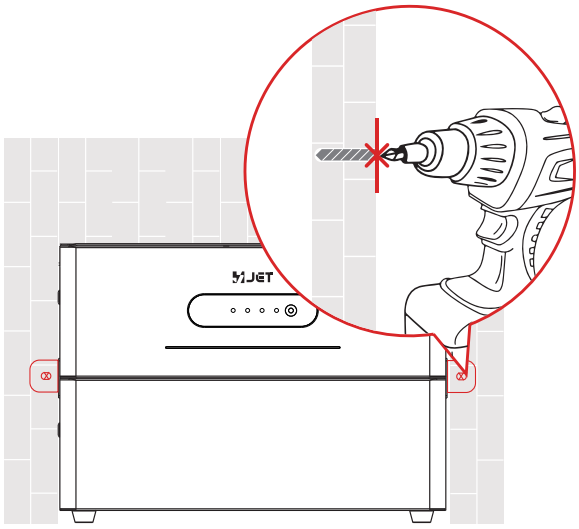
(3) Secure L-shaped wall-mount brackets to both sides of the bottom most expandable battery pack using M4x10 screws.



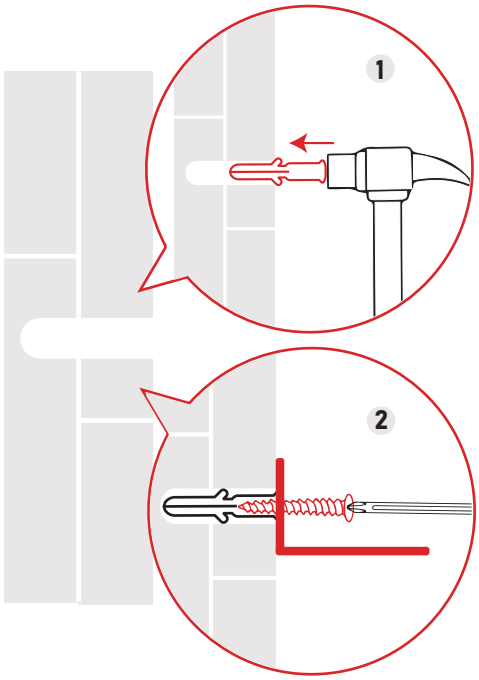
(4) Fix M4x10 combo cross-slot screws to the L-brackets with a Phillips screwdriver.Secure locking brackets to the JMS-SB-2600 battery pack using M5x10 combo cross-slot screws.



(5) Mark drilling positions on both sides and create 8mm holes using appropriate tools.



(6) Hammer plastic anchor sleeves of M5x40 combo screws into the holes. Secure M5x40 combo screws to the L-brackets with a Phillips screwdriver.



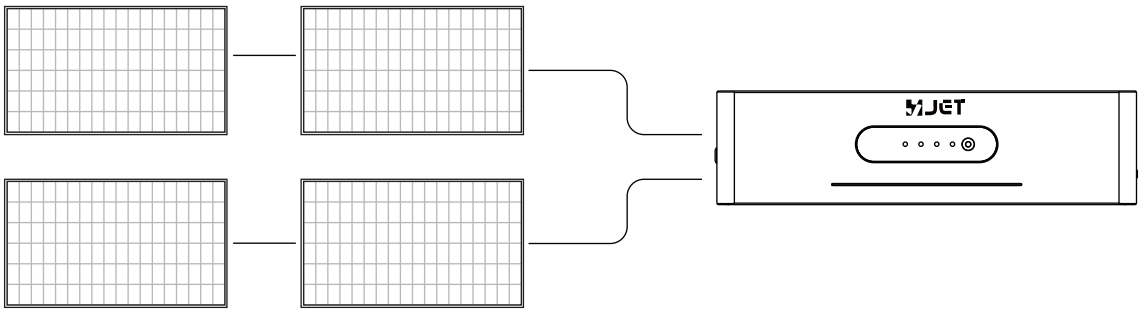
⚠ Notice:

The equipment must be connected to a grounded electrical outlet. Failure to do so may result in electric shock hazards.

VI. Electrical Connection

6.1 Connecting PV Modules (Note: Applicable to JMSS-2400 only. Not compatible with JMSSAC-2400)

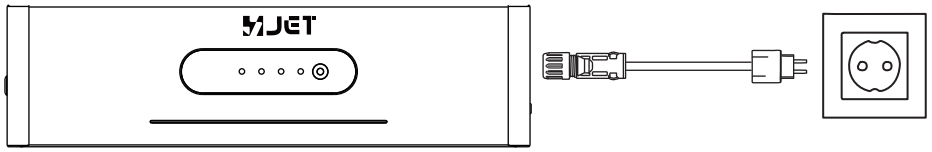
The following installation steps use one JMSS-2400 and four PV modules, recommended power per PV module: 400W~500W. Per-string PV input voltage ⩽100V; module short-circuit current ⩽25A



⚠ Notice:

Use modules with identical power ratings. Connect two modules in correct series configuration to each positive/negative terminal pair. (PV cable length ⩽3M)

6.2 Connect the JMSS-2400 energy storage system to a household outlet using the included 5m AC power cord.

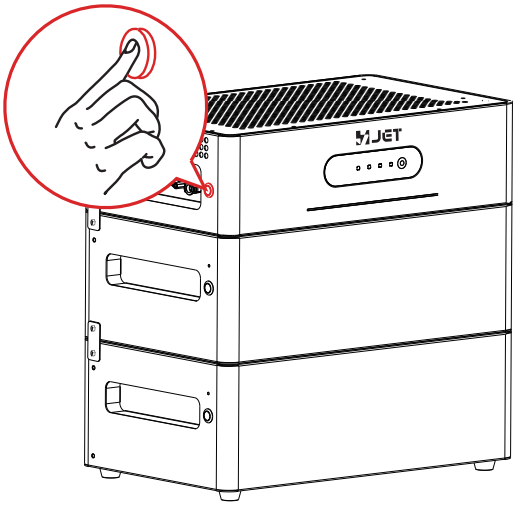


⚠ Notice:

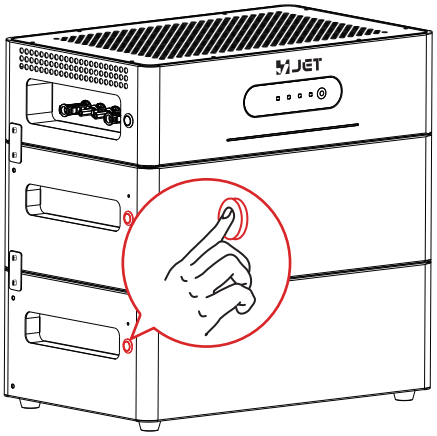
Maximum open-circuit voltage per series string must be <100V. Input voltage exceeding 100V will cause permanent equipment damage.

6.3 Relocation and Maintenance

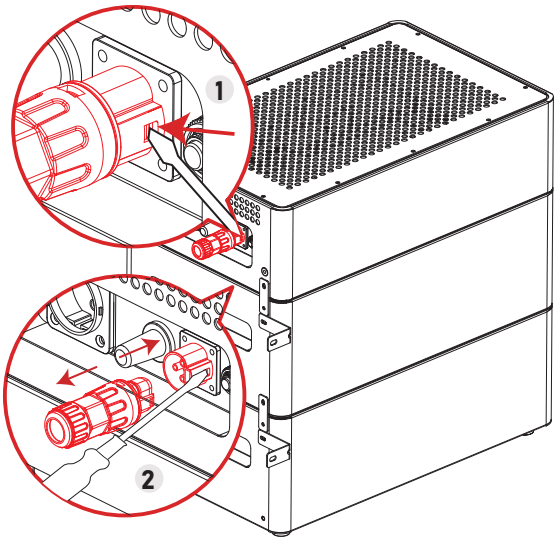
1. Power off the JMSS-2400/JMSSAC-2400
2. Unplug the AC power cord
3. Remove MC4 cables from the side ports of the JMSS-2400 system using unpacking tools. (Not applicable to JMSSAC-2400)



1



2



3

VII. FAQ

Q1: What precautions should I take before inserting/adding an expandable battery pack?

A: The system must be powered off to protect personnel and surrounding equipment when inserting/adding battery packs. Performing this operation with the device powered on will void the warranty and may cause damage. Follow these steps:

a. Disconnect PV modules from the JMSS-2400 (*Skip for JMSSAC-2400; proceed to step b*).

b. Press and hold the power button for 2 seconds to power off all devices sequentially.

c. After all devices shut down, add the expandable battery pack following correct procedures (refer to Installation Steps above).

d. Reconnect PV modules for normal operation (*Skip for JMSSAC-2400*).

Q2: Are there other considerations during installation and use?

A: Ensure the equipment is properly grounded.

Q3: Can PV modules be connected in series?

A: Yes. Ensure the open-circuit voltage (Voc) ⩽100V and short-circuit current (Isc) ⩽20A per series string. Exceeding these limits will cause permanent equipment damage.

Q4: What to do if a battery pack shows a red LED status (system fault)?

A: Press that battery pack’s power button once (this won’t affect other components), then contact your dealer or manufacturer.

GreenArk Pro JMSS-2400

Parameter	
Rated Power	2400W
Peak Power	4800W
Topology	Bidirectional AC Inverter / Buck-Boost MPPT
Grid Compatibility	Single-phase
AC Output (On-Grid)	
Rated Power	2400W
Max. Apparent Power	2400VA
Rated Voltage	230Va.c.
Max. Output Current	10.5A
Frequency	50/60Hz
THD	＜2%
Power Factor	＞0.99
Grid Interconnection Configurability	Without smart meter, grid-tied output power range: 0~800W With smart meter installed, grid-tied output power range: 0~2400W
AC Output (Off-Grid)	
Rated Power	2400W
Max. Apparent Power	2400VA
Peak Power	4800W
Rated Voltage	220/230/240VAC
Max. Output Current	21.0A
Frequency	50/60Hz
THD	＜2%
Power Factor	＞0.99
Overload Capability	5 minutes @ 102%-120% rated load
	10 seconds @ 120%-150% rated load
	5 seconds @ >150% rated load
PV Input	
Number of MPPT Trackers	2
Max. PV Power	1000W*2
Max. Open-Circuit Voltage	100Vd.c.
Vmp Range	10~100Vd.c.
Max. Input Current (per MPPT)	16.5Ad.c.max
Short-Circuit Current (per MPPT)	25Ad.c.max
Startup Voltage	15Vd.c.
AC Input	
Rated Power	2400W
Max. Apparent Power	2400VA
Rated Voltage	230Va.c.

Max. Input Current	10.5A
Frequency	50/60Hz
Power Factor	＞0.99
Efficiency	
Grid Charging Efficiency (AC -> Battery)	93%
Battery Discharging Efficiency (Battery -> AC)	92%
MPPT Efficiency	99.9%
PV Charging Efficiency	96%
Protection Functions	
Overload/ Over temperatur/Input over voltage/Input under voltage/Overcharge/ Over-discharge protection	
Communication	
WIFI	1
Bluetooth	1
Product Features	
Operating Ambient Temperature	-20~55°C
Operating Relative Humidity	0%-98%RH
Maximum Operating Altitude	2000m
Cooling Method	Forced Air Cooling
Ingress Protection	lP65
Dimensions	480mm*298mm*130mm
Weight	11.2kg
Over voltage Category	AC:OVC III;PV:OVC II

GreenArk JMSSAC-2400

Parameter	
Rated Power	2400W
Peak Power	4800W
System Architecture	AC-Coupled
Compatible Grid Type	Single-phase
AC Output (On-Grid)	
Rated Power	2400W
Maximum Apparent Power	2400VA
Rated Voltage	230Va.c.
Maximum Output Current	10.5A
AC Frequency	50/60Hz
THD	＜2%
Power Factor	＞0.99
Grid-Tied Configurable Function	Grid feed-in power adjustable (0~2400W).Default feed-in power <800W; features anti-backflow function for self-consumption.
AC Output (Off-Grid)	
Rated Power	2400W
Maximum Apparent Power	2400VA
Rated Voltage	220/230/240Va.c.
Maximum Output Current	21.0A
AC Frequency	50/60Hz
THD	＜2%
Power Factor	＞0.99
Overload Capability	5 minutes @ 102%-120% rated load
	10 seconds @ 120%-150% rated load
	5 seconds @ >150% rated load
AC Input	
Rated Power	2400W
Maximum Apparent Power	2400VA
Rated Voltage	230Va.c.
Maximum Input Current	10.5A
AC Frequency	50/60Hz
Power Factor	＞0.99
Efficiency	
Grid Charging Efficiency (AC -> Battery)	93%
Battery Discharging Efficiency (Battery -> AC)	92%
Protection Functions	
Overload/ Over temperatur/Input over voltage/Input under voltage/Overcharge/ Over-discharge protection	

Communication	
WIFI	1
Bluetooth	1
Product Features	
Operating Ambient Temperature	-20~55℃
Operating Relative Humidity	0%-98%RH
Maximum Operating Altitude	2000m
Cooling Method	Forced Air Cooling
Ingress Protection	IP65
Dimensions	480mm*298mm*130mm
Weight	11.2kg
Over voltage Category	AC:OVC III;PV:OVC II

GreenArk JMSSB-2600

Parameter	
Battery Capacity	2.6kWh
Battery Rated Voltage	51.2Vdc
Battery Type	LiFeP04
Charging Control Method	
Pre-charging, Constant current (CC), Constant voltage (CV), Equalization charging, Float charging, Shut-off57.6Vdc	
Maximum Charge Termination Voltage	57.6Vdc
Minimum Discharge Termination Voltage	44.8Vdc
Rated Charge Current	53A
Rated Discharge Current	53A
Maximum Charge Current	53A
Maximum Discharge Current	53A
Charging Control Commands	
Charge termination voltage, Charge current, Charge enable, Charge termination criteria, Battery fault, Battery temperature, Charging mode switching	
Cycle Life	6000(25°C，0.5C，70%EOL)
Dimensions	480*298*188mm
Weight	26.5kg
Charging Temperature Range	-10~55°C
Discharging Temperature Range	-20~55°C
Recommended Stacking Quantity	1-6PCS
Protection Functions	
Overload/ Over temperatur/Input over voltage/Input under voltage/Overcharge/ Over-discharge protection	
Product Features	
Operating Ambient Temperature	-10~55°C
Operating Relative Humidity	0%-98%RH
Maximum Operating Altitude	2000m
Cooling Method	Natural Cooling
Ingress Protection	IP65