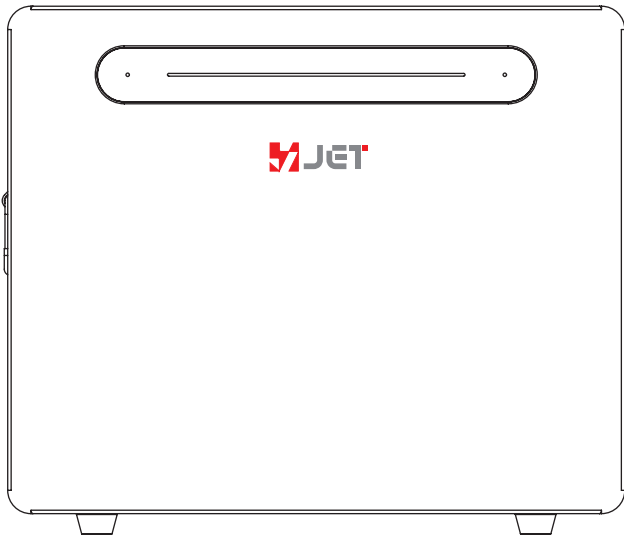




GreenFlow

Energy Storage System

User Manual



Model: GreenFlow JMSA-1200

CONTENTS

01 Warning	2
-------------------	----------

02 About This User Manual	2
----------------------------------	----------

03 Packing List	3
3.1 Pre-Installation Inspection	3
3.2 All-in-One Energy Storage System Packing List	3
3.3 Standard Accessories	3
3.4 Optional Accessories	4

04 Overview	5
4.1 Product Overview	5

05 Device Installation	8
5.1 Selecting the Installation Location	8
5.2 Installation Tools	9
5.3 Installation	9

06 Electrical Connection	10
6.1 Connecting PV Modules	10
6.2 Connecting AC Power Cables	11
6.3 Off-Grid Connections	11
6.4 Relocation and Maintenance	12

07 FAQ	13
---------------	-----------

01 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.

02 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 GreenFlow JMSA-1200 (hereinafter referred to as JMSA-1200).

Product Definitions:

JMSA-1200	An all-in-one energy storage system that can be connected to PV systems, household loads, and the grid.
-----------	---

Notice:

- * The JMSA-1200 does not support off-grid parallel connection with the same model (grid-tied mode remains unaffected) and is not compatible with external batteries.
- * JMSA-1200 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(Shelly Pro EM-50/ Shelly P ro 3EM), the maximum grid-tied power can be adjusted up to 1200W.

03 Packing List

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.

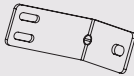
Inspecting Delivered Goods

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.

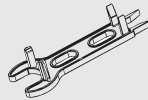
3.2 All-in-One Energy Storage System Packing List



1* JMSA-1200



2* L-Shaped Wall Bracket



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



1* User Manual



4* M4x10
Combination



2* M5x40
Phillips screw

3.3 Standard Accessories



1* AC Power Cord



Notice:

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

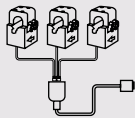
3.4 Optional Accessories

(1) Smart Meter (Model: Shelly Pro EM-50/ Shelly Pro 3EM)

Installed in the home electrical panel to monitor household appliance electricity consumption and track the grid-tied status of JMSA-1200 intelligent charging/discharging in real-time.



1*Smart Meter

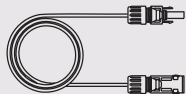


Current Transformer



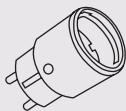
1*User Manual

(2) JET PV Connection Cables



4*PV Connection Cable

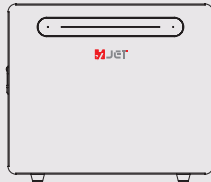
(3) Smart Plug (Model: Shelly Plug S gen 3)



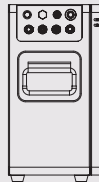
Shelly Plug S gen 3

04 Overview

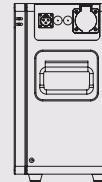
4.1 Product Overview



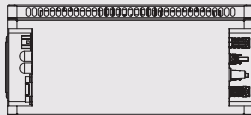
Front View



Left Side View



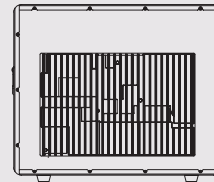
Right Side View



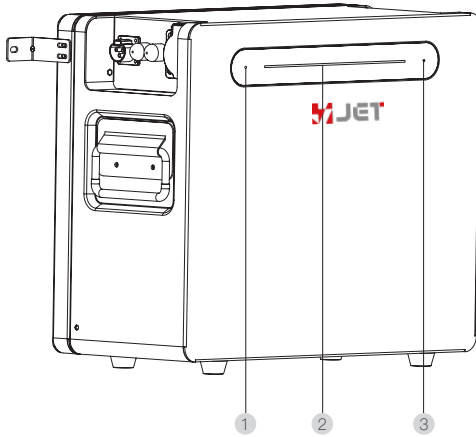
Top View



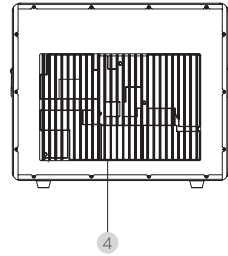
Bottom View



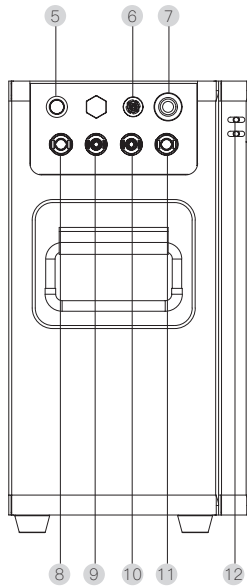
Rear View



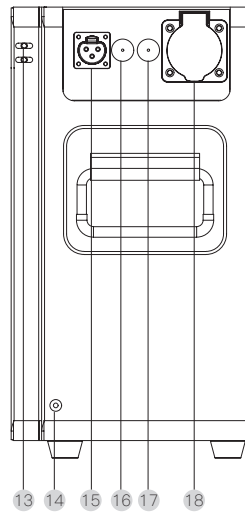
JMSA-1200



Rear View



Left Side View



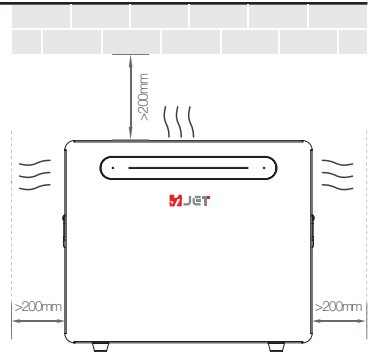
Right Side View

Position	Name	Function
1	Warning Indicator (Red Light)	Flashing: Warning; Solid On: Fault
2	Battery Power Indicator	Battery Power Display
3	Running Indicator (Green Light)	Flashing: Standby; Solid On: Running
4	Heat Dissipation Shell	Device Heat Dissipation
5	Inverter Switch	Press once to turn on, press again to turn off
6	CAN Port	/
7	WiFi Antenna	WiFi Antenna
8	PV1 Positive Terminal	Connect to PV module input
9	PV1 Negative Terminal	Connect to PV module input
10	PV2 Negative Terminal	Connect to PV module input
11	PV2 Positive Terminal	Connect to PV module input
12	Screw Hole	Fixing screw hole
13	Screw Hole	Fixing screw hole
14	Grounding Terminal	Device backup grounding terminal
15	On-Grid Connection Port	Grid-tie interface, connect to household wall outlet
16	On-Grid Overload Protector	Power off when overloaded, requires manual reset after power restoration
17	Off-Grid Overload Protector	Power off when overloaded, requires manual reset after power restoration
18	Off-Grid Output Port	Off-grid output interface, backup power output

05 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: 4000 meters.
- * Maintain a distance of 200mm from the top and both sides of the host, and reserve 30–50mm at the rear to ensure sufficient heat dissipation and electrical insulation space.
- * Strictly avoid touching the heat dissipation vents and surrounding areas on the rear of the device. Do not place any objects on top of the device to ensure unobstructed heat dissipation.

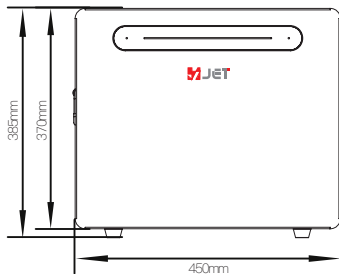


⚠ Notice:

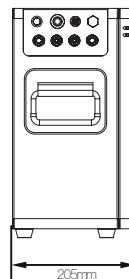
This equipment is designed for floor installation. To maximize safety, it is recommended to complete the wall-mounting steps. For specific installation procedures, please refer to Section 5.3 Installation.

(1) Dimensions (JMSA-1200)

Front Dimension



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)

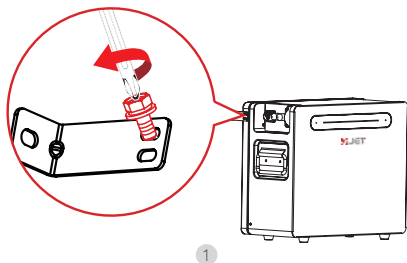


Insulating gloves

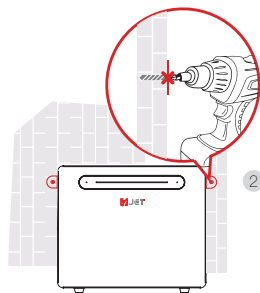
5.3 Installation

The installation steps below use one JMSA-1200 as an example:

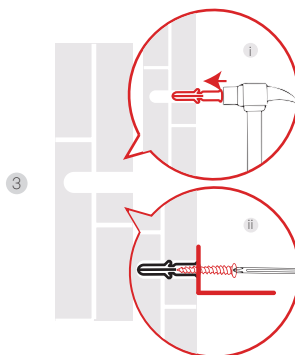
(1) Use a Phillips screwdriver to secure the L-bracket to the main unit with M4x10 combination Phillips pan head screws.



(2) Mark the drilling positions on both sides and use a tool to create 8mm holes.



(3) Tap the plastic sleeve of the M5x40 Phillips pan head screw into the hole with a hammer, then use a Phillips screwdriver to secure the M5x40 screw to the L-shaped wall mount bracket.



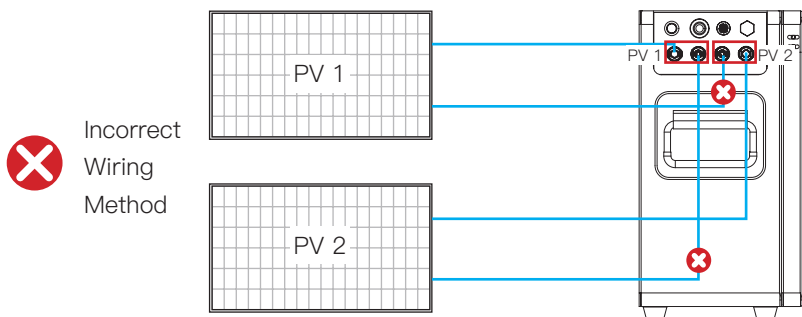
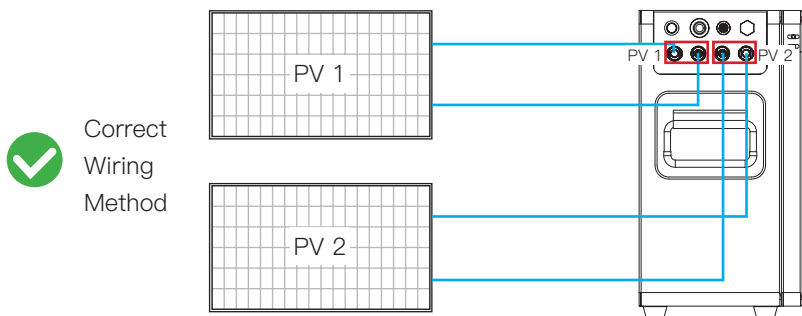
06 Electrical Connection

⚠ Notice:

Before performing electrical connections, ensure the device is powered off (the power switch button should be in the popped-out position).

6.1 Connecting PV Modules

The following describes the installation steps using one JMSA-1200 unit and two PV modules. The maximum power per PV module is 700W.



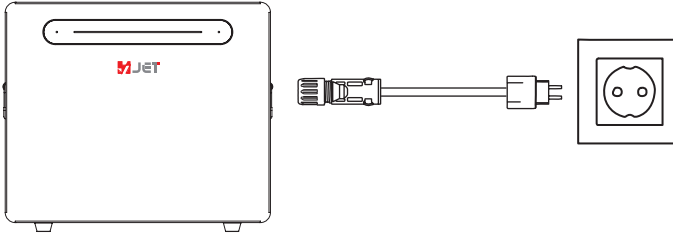
Do not cross-connect the PV wiring, as this may cause equipment damage.

⚠ Notice:

The maximum open-circuit voltage for a single series-connected PV string must be less than 60V. Exceeding 60V input voltage may result in equipment damage. The short-circuit current of a PV panel must not exceed 25A.

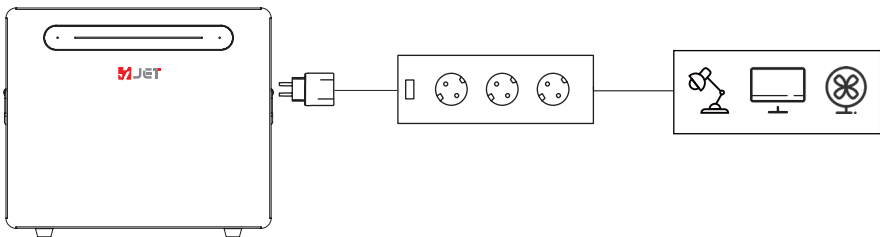
6.2 Connecting AC Power Cables

Use the provided AC power cable to connect the JMSA-1200 energy storage system to a reliably grounded household power outlet.



6.3 Off-Grid Connections

Directly plug a power strip into the device's OFF Grid interface, and connect electrical appliances to the power strip. The power strip should be rated for at least 6A or higher to ensure electrical safety. Connecting high-power household appliances is not recommended.

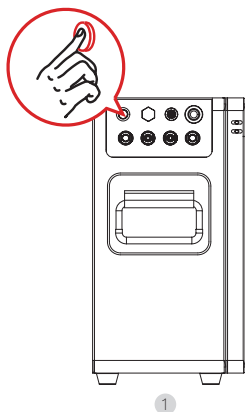


6.4 Relocation and Maintenance

The following example uses one JMSA-1200 unit to illustrate troubleshooting or relocation steps:

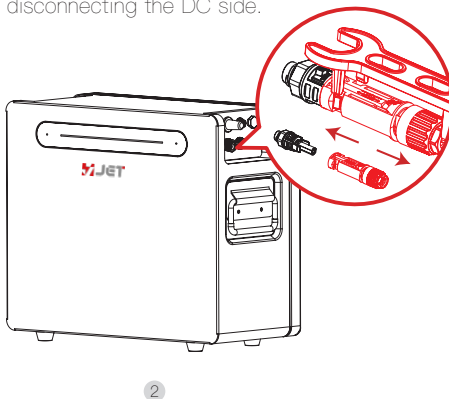
(1) Power Off Operation:

First, power off the device and unplug the AC power cable from the outlet. (The terminal switch is in the popped-up state when disconnected.)



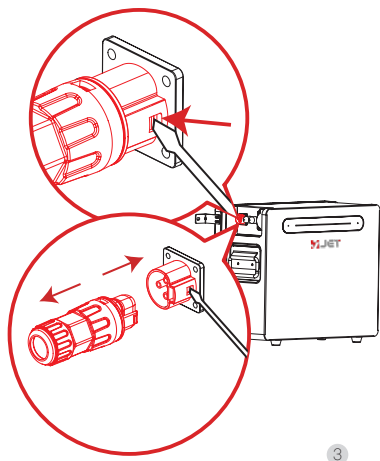
(2) Disconnecting PV Input:

Use a dedicated PV disassembly wrench to clamp the male and female ends of the MC4 connector separately. Apply force in opposite directions until they separate, safely disconnecting the DC side.



(3) Disconnecting Grid-Tied (ON Grid) Interface:

This interface uses a terminal block design. Use a screwdriver to press the buckle on the terminal while simultaneously pulling the wire out of the terminal.



(4) Disconnecting Off-Grid Interface:

This interface uses a socket design. Pinch the plug (do not pull the wire) and firmly pull it straight out of the interface.

07 FAQ

Q1: Can the battery capacity be expanded if it is insufficient?

A: No, expansion is not supported as there is no external battery port.

Q2: Are there any other precautions for installing and using this product?

A: Ensure the device is properly grounded, and avoid intermixing PV module cables.

Q3: Can PV modules be connected in series?

A: No. Ensure the input open-circuit voltage does not exceed 60V and the short-circuit current does not exceed 25A. Exceeding these limits may cause equipment damage.

Q4: What types of appliances can be connected to the Off-Grid port?

A: The port supports appliances with a power rating below 1200W. High-power devices are not recommended. If the power demand is too high, the device will trigger a protective shutdown. Normal operation resumes after removing the overload.

To continuously optimize the user experience, the product may undergo upgrades from time to time. JET reserves the right of final interpretation regarding product design.

Website: www.jydet.com

E-Mail: support@jyjet.com