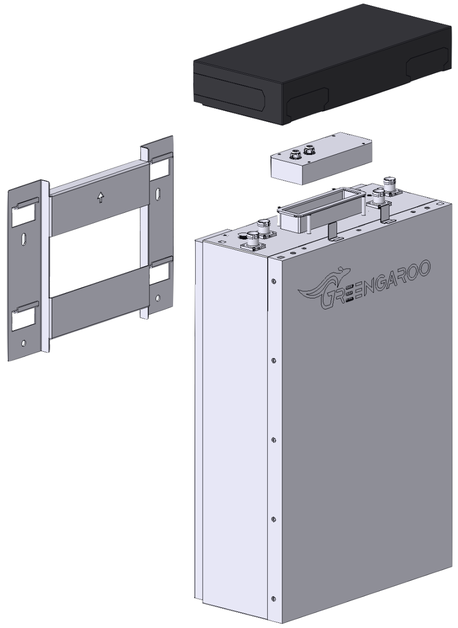
Quick Installation Guide

AW7500PRO-WM

Stack Battery Energy Storage System



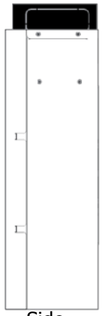
Important Note:

- Refer to the AW7500PRO battery installation manual before proceeding.

Version: Draft v26e

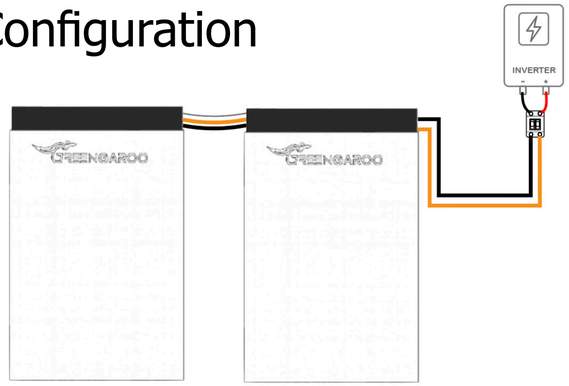
Appearance and Configuration

Front

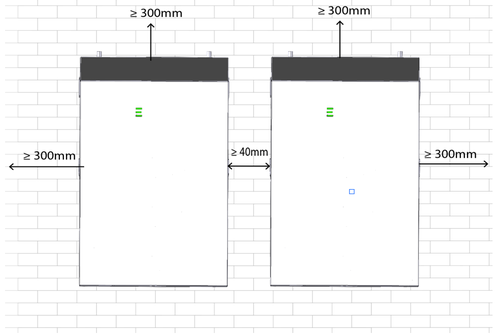

Side

Dimension: 665mm * 406mm * 196mm

Configuration

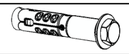


Clearance

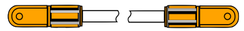


2. Packaging Contents

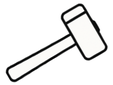
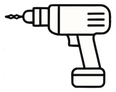
A. Base package

No.	Image	Qty	Description
A1		2	Mounting Bracket
A2		2	Wallmount template
A3		8	M8 x 80mm Expansion bolt
A4		1	Ground wire (1000mm)
A5		1	Battery to inverter power Cable (red) (2000mm)
A6		1	Battery to inverter power Cable (black) (2000mm)
A7		1	Communication Cable (1400mm)
A8		8	M6 x 8mm screw
A9		1	RJ45 header

B. AW7500PRO Battery module package (Per Module)

No.	Image	Qty	Description
B1		1	Battery module
B2		1	Positive Power cable (Orange) (1000mm)
B3		1	Negative Power Cable (Black) (1000mm)
B4		1	RJ485 Communication Cable
B5		1	Ground wire (1000mm)
B6		1	RJ45 header

Tools Required

			
Philips screwdriver	Safety shoes	Safety gloves	Safety glass
			
Rubber mallet	Hammer drill	Spirit level	Multimeter
			
socket wrench	Tape measure		

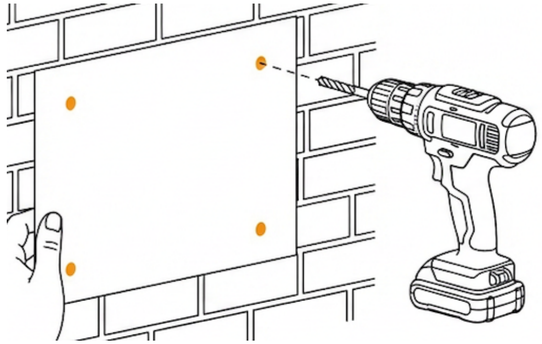
3. Mechnical Installation

- Ensure flat, solid, and capable of supporting stack weight.
- Verify the casing is dry and clean.
- Warning: Avoid install during rain or snow.

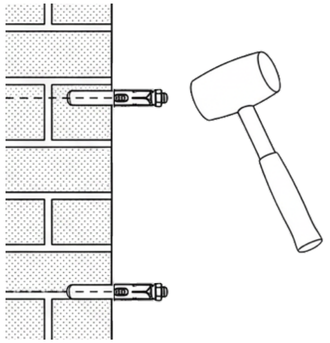
Step 1: Mount bracket on wall

- Align Wall-mount template (A2) and drill the holes to required depth
- Insert Expansion bolt (A3) and secure Mounting racket (A1) to the wall

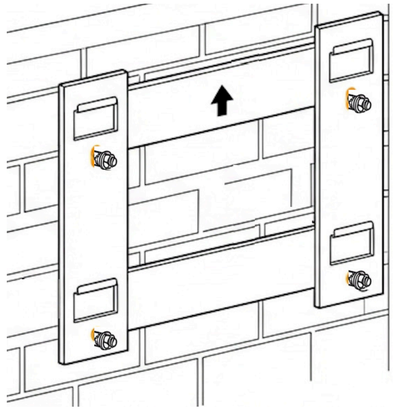
1



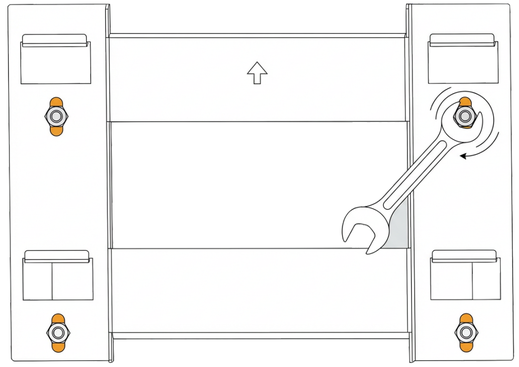
2



3

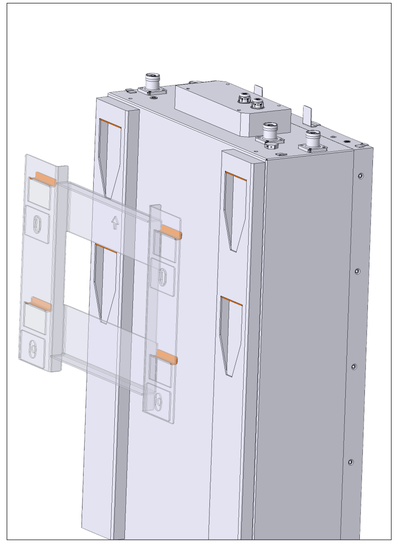


4



Step 2: Mount battery on bracket

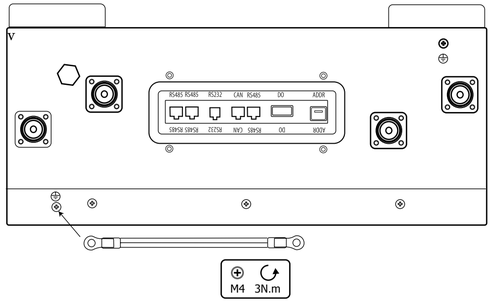
- Lift and seat the battery module (B1) onto the wallmount Bracket (A1).
- Ensure the module locks securely into place



4. Electrical Installation

Step 1: Grounding (PE)

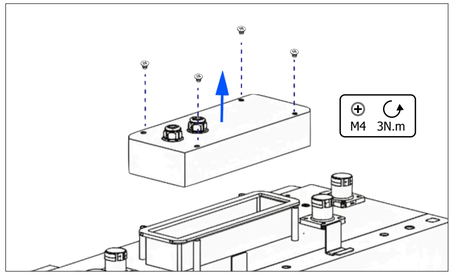
Connect ground wires (A4/B5) to all modules

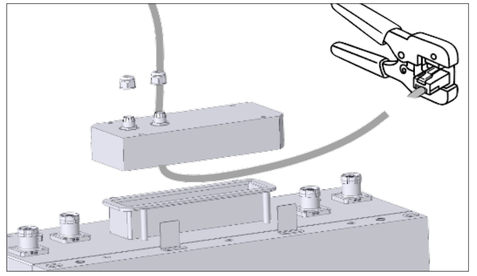


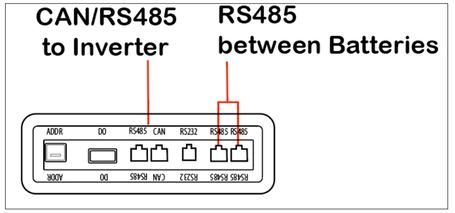
Step 2: Communication Wiring

Note: Ensure the system is powered OFF before terminating cables.
Wiring communication cables:

- Unscrew the waterproof connector and thread bare-wire end of cable.
- Crimp the RJ45 header according the pinout standard
- Plug into destinated port as describe and tighten the waterproof connector.

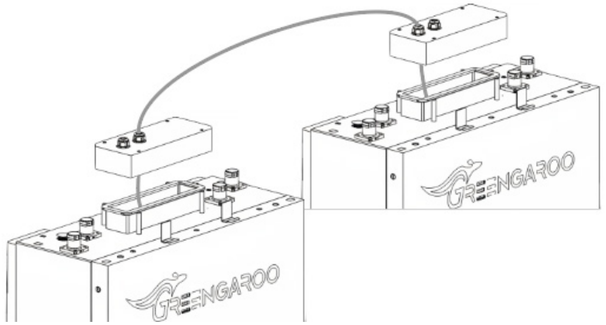


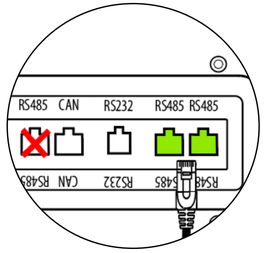




A. Inter-Battery Communcation (RS485)

- Thread non-connector end of cable (B4) through waterproof connector of first battery, out to next battery's connector, then crimp RJ45 (B6) and plug in.



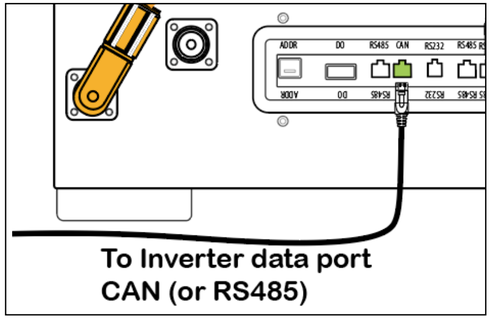


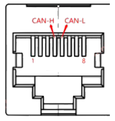
2 x RJ45 plug in 8P8C stand type

Pin	Descripton
1, 8	RS485-B
2, 7	RS485-A
3, 6	GND
4, 5	NC

B. Master Battery to Inverter (CAN)

- On Master Battery (Address 1), route on-connector end of CAN cable (A7) through water-proof connector; crimp RF45 per pinout. and plug in.





RJ45 plug in 8P8C stand type

Pin	Descripton
4	CANH
5	CANL
7	GND
1,2,3,6,8	NC

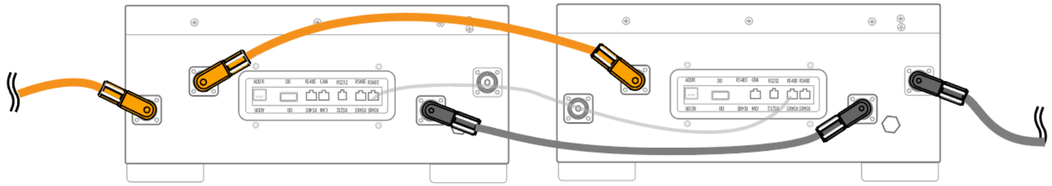
Step 3: Power Wiring (DC)

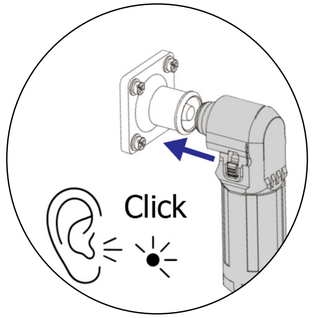
Parallel Connection: Connect all battery modules in parallel.

- Link all Positive terminals using orange cables (B2)
- Link all Negative terminal using black cables (B3).

Home Run Cables:

- Connect the Main Positive Cable (A5 - Red) to the First battery module (+) terminal
- Connect the Main Negative Cable (A6 - Black) to the Last battery module (-) terminal
- Connect the free ends to the Inverter DC Breaker.

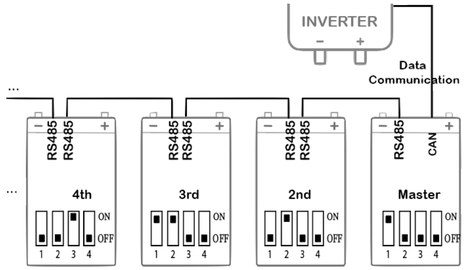


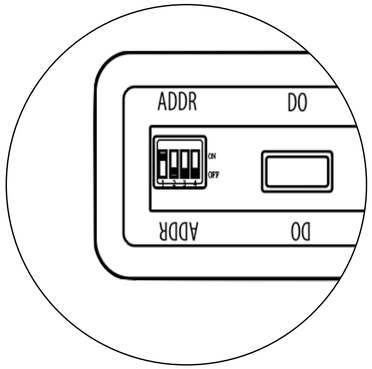


5. Configuration & Commissioning

Step 1: Address Assignment (DIP Switch)

- Set unique address for each battery via ADDR switch.
- Master Battery: Must be set to Address 1.

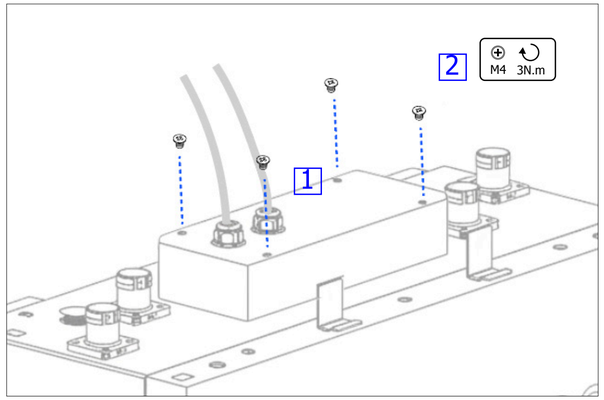


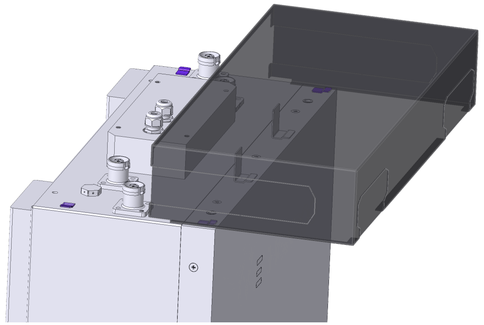


Step 2: Final Assembly

When complete configuration

- Verify all waterproof connectors are tightened
- Re-install panel cover and front cover to battery modules





Step 3: Initial Startup

- Switch ON the DC Breaker.
- Power on the Master Battery (Address 1) first, switch on remaining slave modules sequentially.
- Observe the LED indicators;
- Verify communication with the inverter.