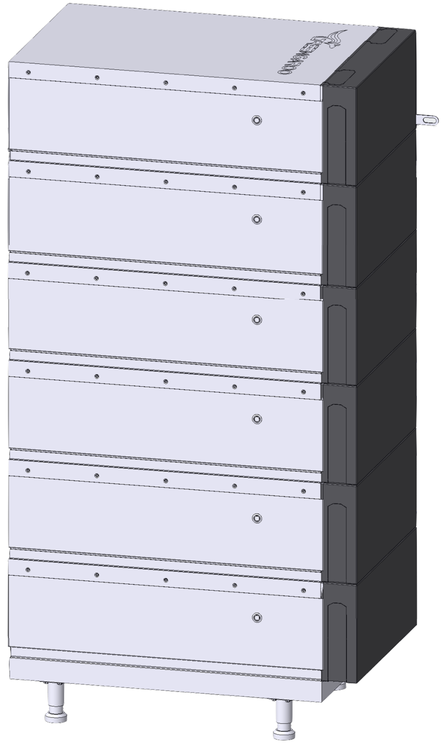
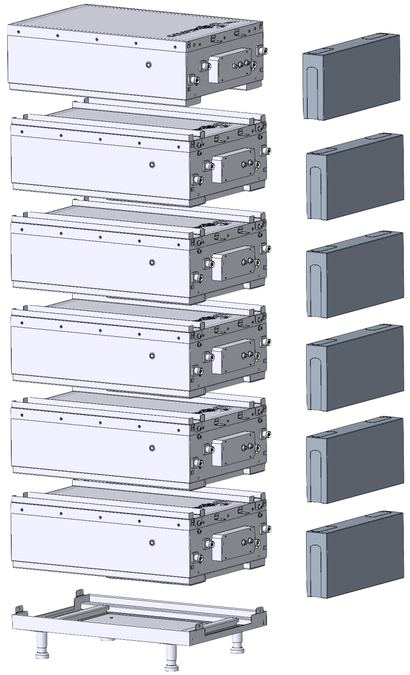
Quick Installation Guide

AW7500PRO-ST

Stack Battery Energy Storage System



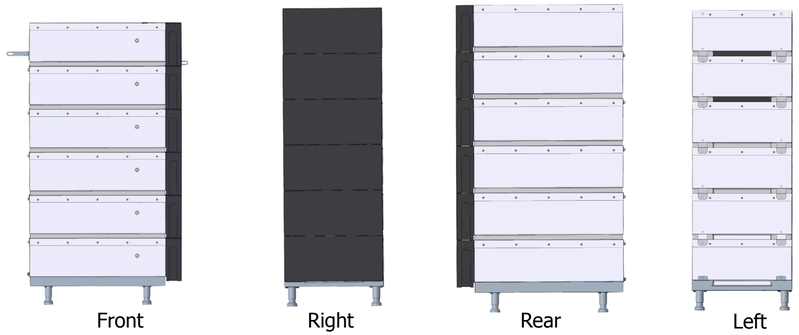


Important Note:

- Designed exclusively for AW7500PRO battery modules; stackable up to 6 units.
- Refer to the AW7500PRO battery installation manual before proceeding.

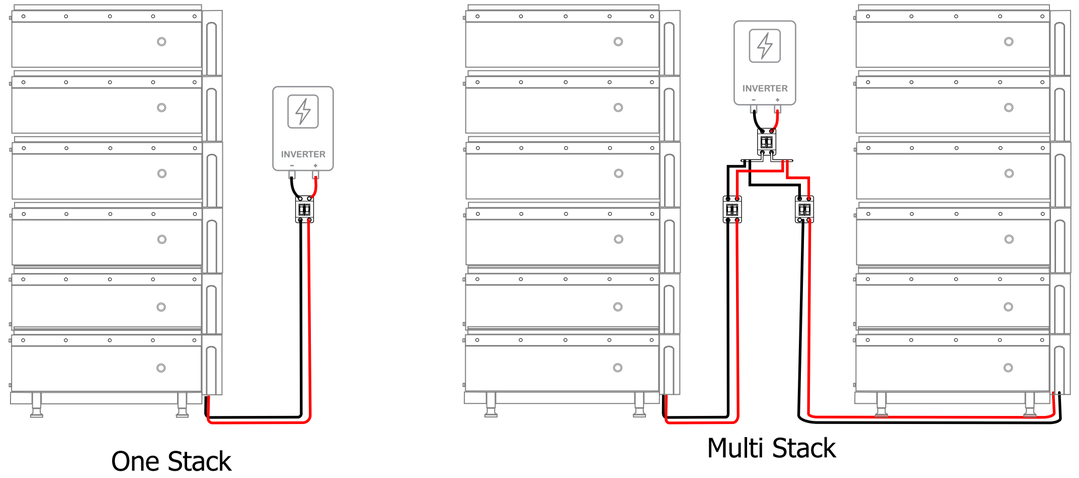
Version: v6.1.9

Appearance



Dimension: 673mm * 432mm * 1037mm

Configuration

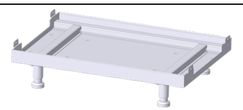


One Stack

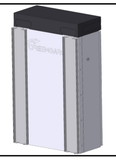
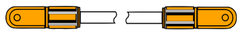
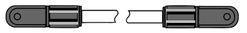
Multi Stack

2. Packaging Contents

A. Base package

No.	Image	Qty	Description
A1		1	Base
A2		4	Wallmount angle bracket
A3		4	M8 x 80mm Expansion bolt
A4		1	Ground wire (1000mm)
A5		1	Battery to inverter power Cable (red) (1500mm)
A6		1	Battery to inverter power Cable (black) (2000mm)
A7		1	Communication Cable (2000mm)
A8		8	M6 x 8mm screw
A9		2	RJ45 header

B. AW7500PRO Battery module package (Per Module)

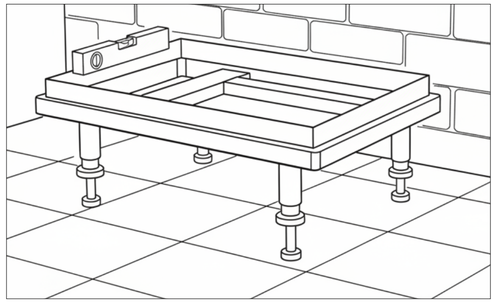
No.	Image	Qty	Description
B1		1	Battery module
B2		1	Positive Power cable (Orange) (1000mm)
B3		1	Negative Power Cable (Black) (1000mm)
B4		1	RJ485 Communication Cable
B5		1	Ground wire (1000mm)
B6		1	RJ45 header

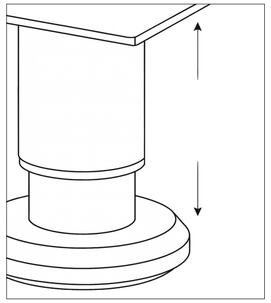
3. Mechnical Installation

- 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: Install Base

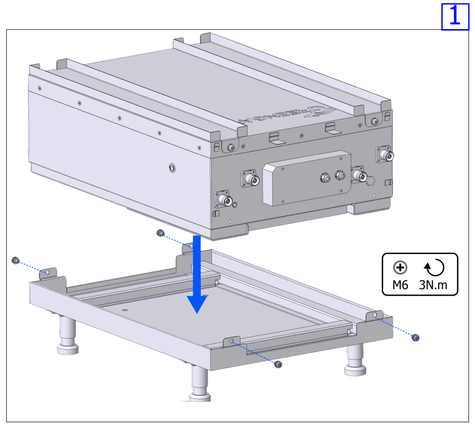
- Place base, adjust leg height for level.

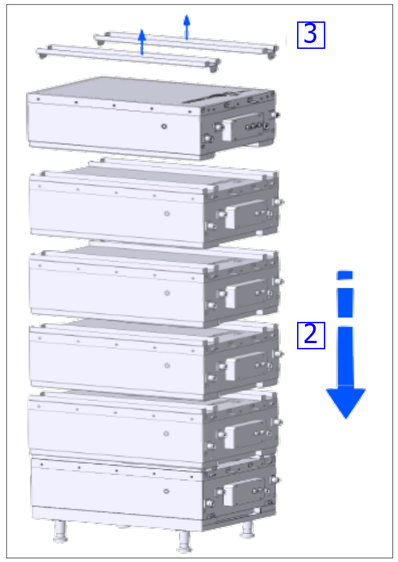




Step 2: Stacking Batterie Modules

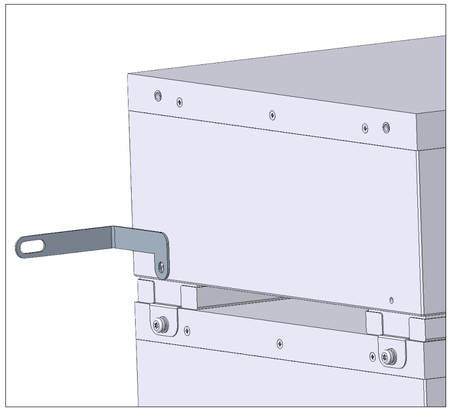
- Seat first module on base, align and tighten screws (A8)
- Stack subsequent modules (up to 5), securing each.
- Remove mount rack from the very top battery module

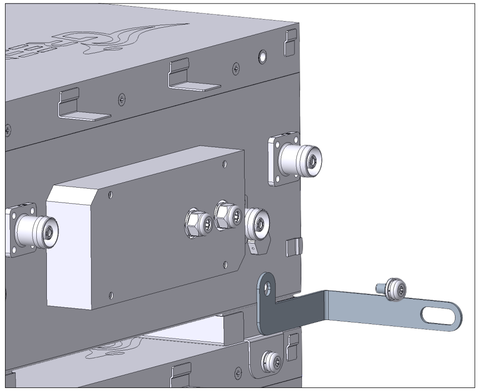




Step 3: Mount wallmount angle brackets

- Mount wallmound angle brackets (A2) to wall using expansion bolts (A3) and Screws (A8)

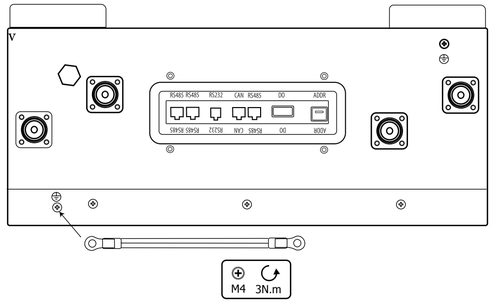




4. Electrical Installation

Step 1: Grounding

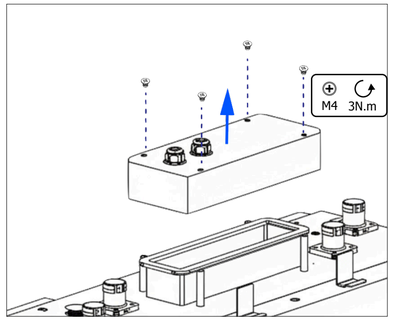
Connect ground wires to all modules and the base.

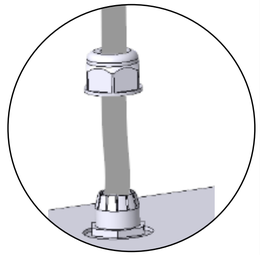


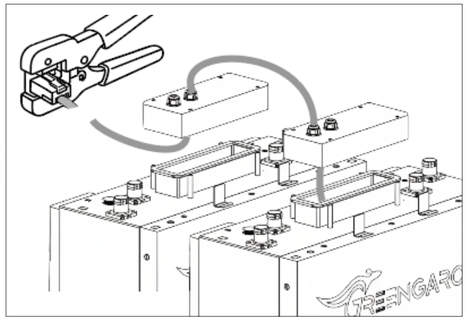
Step 2: Communication Wiring

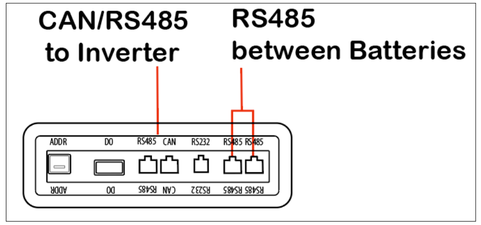
Wiring all communication cable through cover:

- 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.



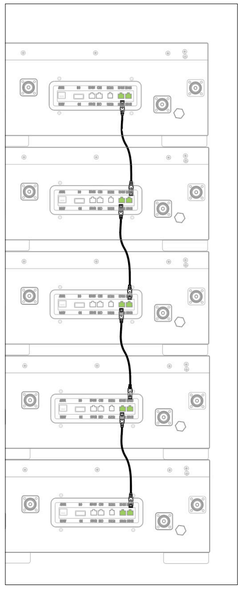


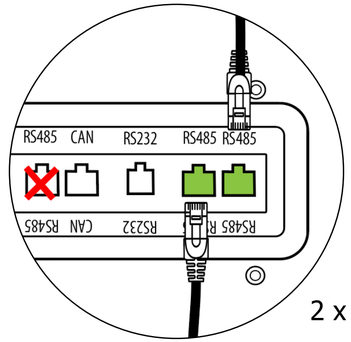




RS485 communication cable between batteries

- 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.



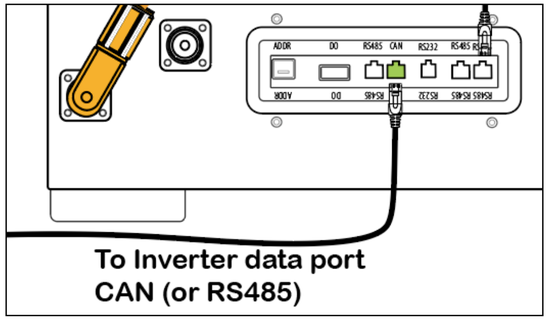


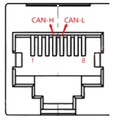
2 x RJ45 plug in 8P8C stand type

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

Master Battery: Add CAN cable to inverter port.

- Thread non-connector end of CAN cable (A7) through waterproof connector; crimp RF45 per pinout. and plug in.



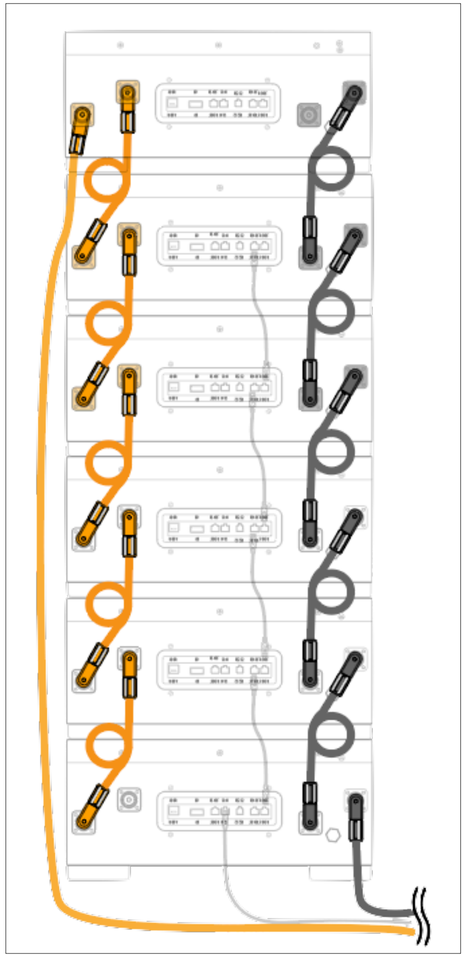


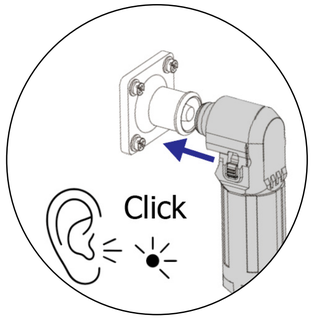
RJ45 plug in 8P8C stand type

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

Step 3: Power Wiring

- Parallel batteries using orange (B2) and black (B3) cables.
- Connect orange (A5) from first battery to inverter/breaker positive.
- Connect black (A6) from last battery to inverter/break negative.
- See wiring example diagram

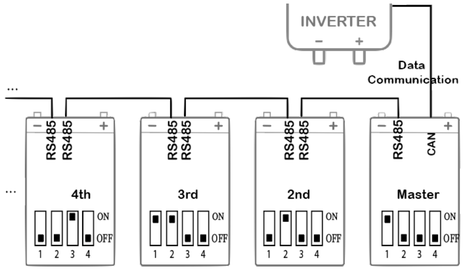


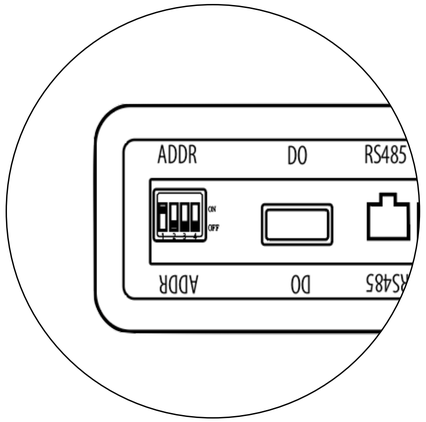


5. Configuration & Setup

Step 1: Address Settings (DIP Switch)

- Set unique address for each battery via ADDR switch.
- Master Battery = Address 1.

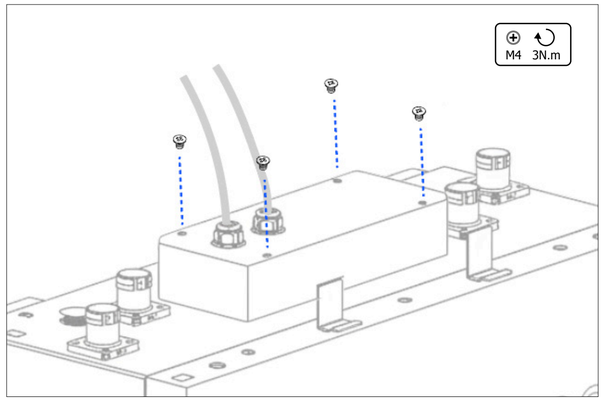


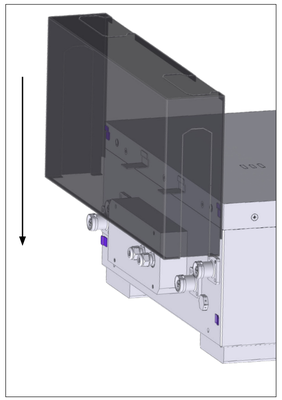


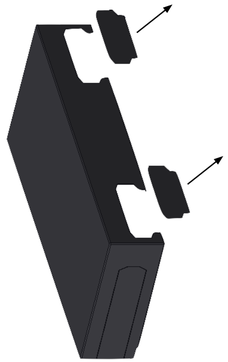
Step 2: Final Assembly

When complete configuration

- Tighten waterproof connector
- Re-install panel cover and front cover to battery modules
- Create openings for cables between batteries by removing the two knockouts on the side of the panel cover.







Step 3: Initial Startup

- Power up the system starting with the master battery (Address 1), then activate the remaining modules sequentially.