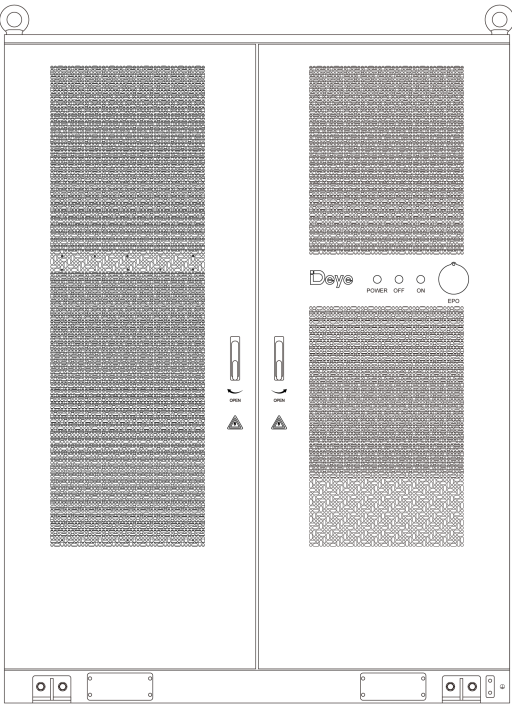




User Manual

Photovoltaic and Battery Hybrid Inverter System

WS-PCS1125-2-A



Preface

This manual provides information on safety, installation, electrical connection, operation, maintenance, and other relevant aspects of the product.

In this manual, the terms "equipment", "device", and "product" refer to the product or its components; the terms "manufacturer", "producer", and "the Company" refer to NINGBO DEYE ESS TECHNOLOGY CO., LTD. (hereinafter referred to as the "Company") or its authorized agents.

The illustrations in this manual are for reference only and may differ from the actual product. The Company reserves the right to modify the content without prior notice. For the latest version, please visit our official website or contact our after-sales service.

The Company assumes no liability for any losses arising outside the scope of the warranty policy.

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NINGBO DEYE ESS TECHNOLOGY CO., LTD. hereby confirms that the products described in this document comply with the fundamental requirements and other relevant provisions of the applicable EU directives.

Vulnerability Reporting & Security Advisories

To report a potential cybersecurity vulnerability, or to view official security advisories, vulnerability disclosures and update notices, please visit our security response center at: <https://sec.deyecloud.com/>

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1 Safety

1.1 Convention

This manual uses the following signal signs and words to indicate imminently or potentially hazardous situations. Observe all safety instructions to avoid personal injury, property damage, or equipment malfunction.

Symbols	Description
 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTE	Indicates supplementary explanation, clarification, or emphasis on a particular content for better understanding.

1.2 Symbols

Symbols	Description
	Connect an earth terminal to the ground
	General warning
	Warning; Hot surface
	Warning; Electricity
	5 min remaining before operation
	Separate collection for waste electrical and electronic equipment is required

	Refer to instruction manual/booklet.
	Operator's manual
	This way up
	Fragile, handle with care
	Keep away from rain
	Do not roll
	Do not stack
	Insert the forklift forks at the position indicated.
	Center of gravity
	CE mark of conformity

1.3 Safety Precautions

Personal safety



DANGER

- Keep the equipment out of reach of children and animals.
- Only personnel authorized by the company are permitted to repair or disassemble the equipment. Unauthorized operations may cause fatal electric shock.



WARNING

- Wiring and electrical connections must be performed by personnel with knowledge of electronics, electrical wiring, and mechanics, and who are familiar with the electrical and mechanical schematics of this equipment.



CAUTION

- Personnel planning to install, operate, or maintain this equipment must:

- Read, understand and strictly comply with all safety instructions specified in this manual and relevant document.
- Follow applicable local standards and regulations.
- Be qualified professionals or trained personnel (as defined in the NOTE below).
- Avoid direct contact with equipment components to prevent scalding caused by high temperatures generated during malfunction.

NOTE

- Qualified professionals: Personnel familiar with the working principles and structure of the equipment, who have received training or have operation experience, and are fully aware of the sources and risk levels of potential hazards during equipment installation, operation and maintenance.
- Trained personnel: Personnel who have completed technical and safety training, have qualified practical operation experience, are aware of potential hazards to themselves and others during specific operations, and are capable of taking protective measures to minimize those hazards.

Electrical Safety



DANGER

- Dangerous lethal high voltage is present inside the unit. Contact with live terminals and internal charged parts will result in fatal electric shock.



WARNING

- Before any installation, maintenance or inspection work, cut off and isolate all external and internal power sources. Confirm the unit is fully de-energized before operation.
- The equipment may retain charge even after power disconnection. Wait for at least 5 minutes and verify zero voltage with a standard professional voltmeter before any operation.
- The equipment must be reliably grounded with a grounding resistance complying with local regulations.
- During all operations, use insulated tools and wear personal protective equipment. Remove all metal accessories such as watches and rings.
- Keep terminals away from exposed wires and metal objects.
- Do not place any tools or metal parts on equipment components.
- All adjacent exposed live parts must be fully covered and shielded with insulating materials.



CAUTION

- Ensure correct wiring. Distinguish positive and negative poles strictly to prevent short circuits with external devices.
- Do not use faulty or incompatible power conversion equipment.
- Verify that the connected equipment is fully compatible with the cabinet.

Mechanical Safety



DANGER

- Installation or operation of the equipment in explosive or high-humidity areas is strictly prohibited.



WARNING

- Do not insert foreign objects into any part of the equipment.
- Set up standard warning signs and safety barriers near the equipment to prevent accidents caused by mis-operation or unauthorized access.



CAUTION

- Route all cables in designated positions. Exposed and irregular cable layout is susceptible to mechanical damage.

Maintenance Safety



DANGER

- Unauthorized disassembling or modifying equipment is strictly prohibited.



WARNING

- Fully de-energize the equipment before relocation or any maintenance work.
- All terminals and circuit connectors must be disconnected before maintenance.
- Maintenance shall follow the sequence: equipment de-energization, lockout/tagout to prevent re-energization, zero-voltage verification, residual charge discharge and equipment grounding, and insulation shielding of adjacent live parts.
- Failure to observe warnings, improper installation, or operation by untrained personnel will lead to potential safety hazards.

NOTE

- Do not paint any internal or external components of equipment.
- Do not clean batteries with cleaning solvents.

- The equipment should be commissioned no later than six months after delivery.

Environmental Safety



DANGER

- Open flames, sparks, and other ignition sources must be kept away from the system at all times.



WARNING

- Do not expose the equipment to flammable substances, corrosive chemicals, or their vapors.
- Do not submerge the equipment in water or expose it to excessive moisture. The ingress protection rating of the equipment is only valid for fully assembled and intact configuration.

NOTE

- Where this manual does not cover a specific scenario, applicable safety regulations and occupational health standards shall prevail.
- You are obliged to handle the product disposal in compliance with applicable regulations, including removing any personal data from associated devices, and to return them to a designated or authorized recovery point.

2 Product Introduction

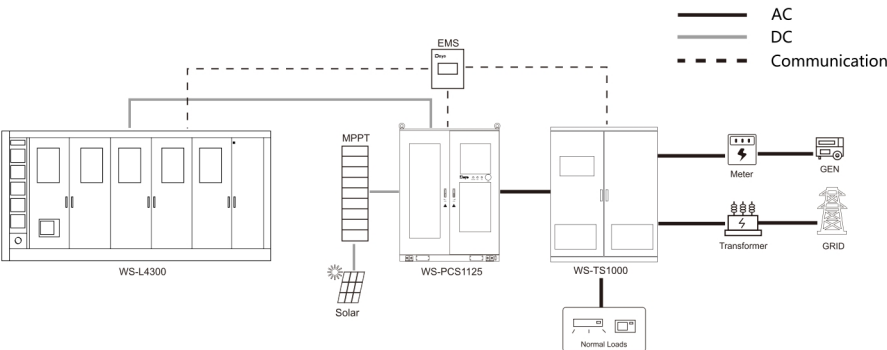
2.1 Product Overview

The equipment is a bidirectional energy conversion system that converts AC to DC for battery charging and DC to AC for discharging to loads or the grid. The entire process is intelligently monitored and managed by the Battery Management System (BMS), ensuring safe and stable operation.

The equipment comprises nine 125 kW energy storage converters, a local control system (including an LC, serial server, and switch), circuit breakers, and cooling fans.

2.2 Application Scenarios

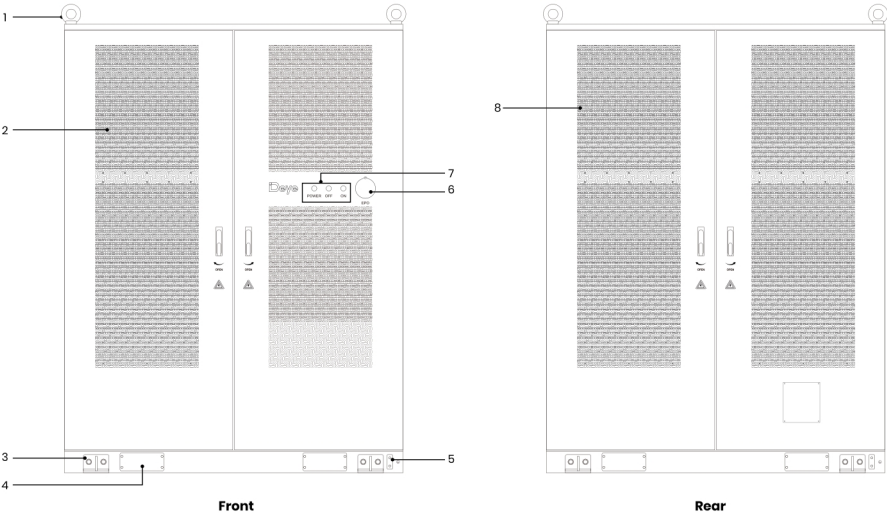
The equipment can communicate with the EMS, converters, and MPPT to perform data processing, performance analysis, alarm management, and data logging for both the battery storage and photovoltaic sides.



Consult with your system integrator for other possible system architectures depending on your requirements.

2.3 Product Appearance

Front & Rear Views



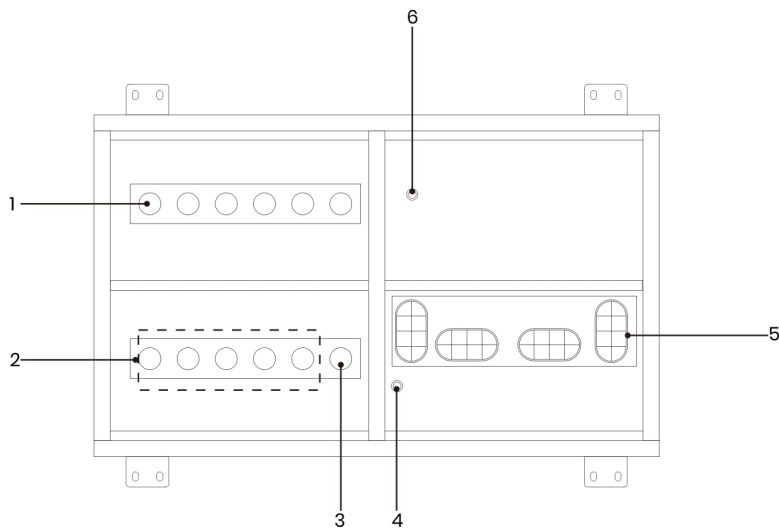
No.	Item	No.	Item
1	Eye bolt ×4	5	Protective Earth Terminal
2	Air Inlet	6	EPO (Emergency Power Off) Button
3	Mounting Feet	7	Status Indicators*
4	Forklift Pocket ×8	8	Air Outlet

*Status Indicator

3 LED status indicators are equipped to visually display the real-time operating status of the equipment.

Item	Description
POWER	The LED illuminates in white when GRID is energized.
OFF	The LED illuminates in green when the air circuit breaker is open.
ON	The LED illuminates in red when the air circuit breaker is closed.

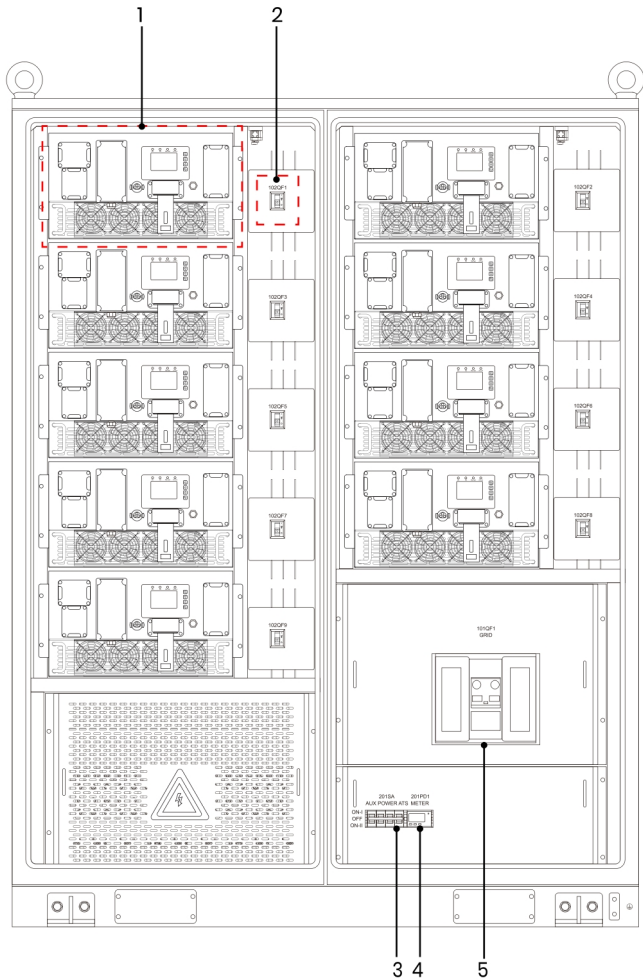
Bottom View



No.	Item	No.	Item
1	MPPT Cable Inlet	4	Auxiliary Power Cable Inlet
2	Battery Cable Inlet	5	Grid Power Cable Inlet
3	Communication Cable Inlet	6	Customizable Auxiliary Power Cable Inlet

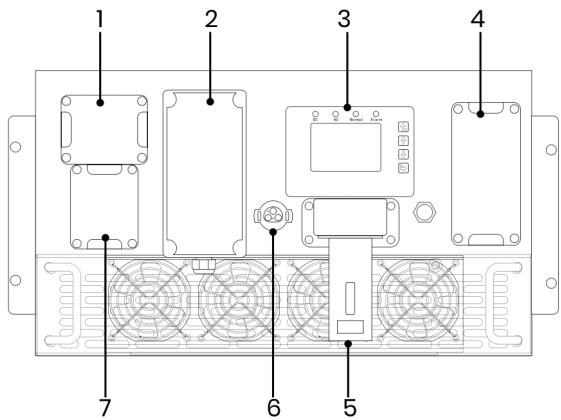
2.4 Internal Structure

Internal Front View



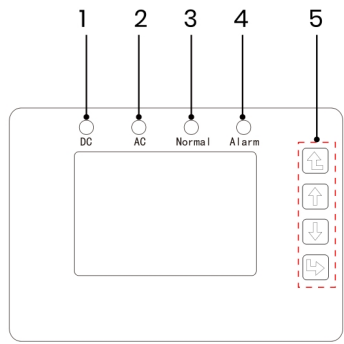
No.	Item	No.	Item
1	Power Converter System (PCS) ×9	4	Electric Meter
2	Molded Case Circuit Breaker ×9	5	Air Circuit Breaker
3	Automatic Transfer Switch (ATS)		

PCS



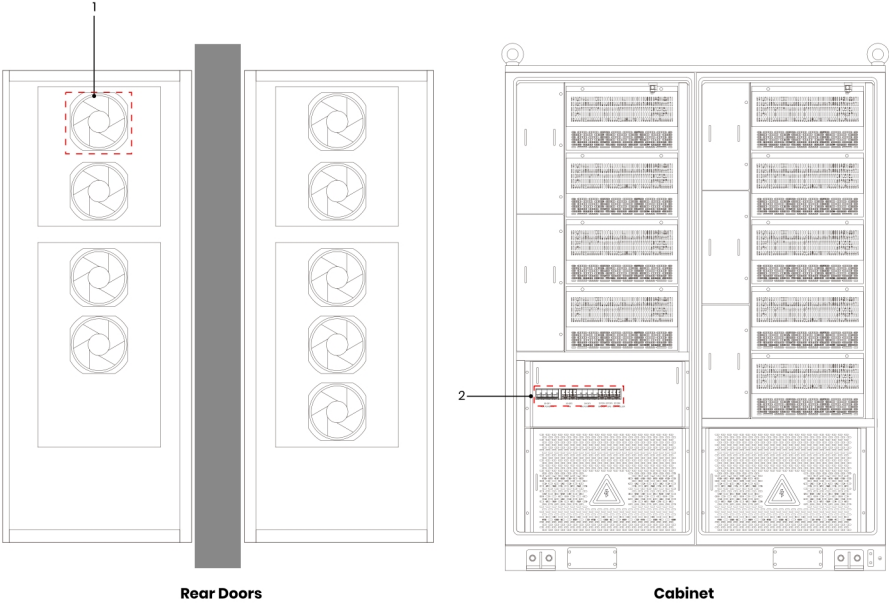
No.	Item	No.	Item
1	MPPT Input Port	5	Interface for Logger
2	Communication Port	6	Auxiliary Power Port
3	LCD Display*	7	Battery Input Port
4	AC Input/Output Port		

PCS LCD Display



No.	Item	Item
1	DC Indicator	Green light constantly on when DC power is present
2	AC Indicator	Green light constantly on when AC power is present
3	Normal Indicator	Green light constantly on when the PCS operates normally
4	Alarm Indicator	Red light constantly on when the PCS is faulty
5	Function Button	/

Internal Rear View



3 Transportation

3.1 Safety Precautions



DANGER

- Confirm local regulations before transportation; illegal transportation is strictly prohibited.
- It is strictly prohibited to mix dangerous goods with food, medicine, animal feed and their additives in the same vehicle or container, and to transport with sharp objects in the same vehicle or container.
- Transport is strictly prohibited if the equipment shows any abnormalities such as unusual odor, leakage, smoke, or fire before departure.



WARNING

- Comply with all applicable safety rules and regulations of the local country or region during loading, unloading, and transportation.
- Transport and storage service providers must hold valid dangerous goods handling certifications as required by local laws and standards. Undertaking relevant business without proper qualifications is strictly prohibited.
- Before removing the transport protector, inspect the packaging for damage and check whether the impact indicator on the outer packaging has been triggered; if triggered, potential transport damage cannot be ruled out.
- Keep the equipment upright and securely fixed during sea or land transportation. The inclination angle of equipment shall not exceed 15° throughout the transportation process.
- Throughout the transportation process, protect the equipment from severe vibration, impact, and crushing. Avoid exposure to direct sunlight, rain, and moisture. Take appropriate rainproof, moisture-proof, and sun-protection measures.
- Smoking is strictly prohibited in transportation, loading and unloading areas.
- Freight personnel are strictly prohibited from opening the outer packaging of the equipment without authorization.
- All loading and unloading operations must be carried out by authorized and trained personnel.



CAUTION

- Handle with care during moving to prevent bumping.
- Transport operators must wear protective gloves and toe-cap safety shoes for

personal protection, and pay special attention to avoiding scratches by sharp metal panels and crushing injuries by heavy objects.

NOTE

- Complete compliant and accurate declaration before transportation, and carefully check whether the packaging, labels and markings are intact.
- Do not remove the product transport packaging before arrival at the installation site.

3.2 Transportation Modes

Recommended transportation methods: sea freight and land freight.

Requirements for sea and land freight	
Sea freight	▪ Seal all external gaps of the equipment and affix marks certified by the classification society. ▪ Equip the outer packaging with rainproof canvas covers to avoid paint finish scratches.
Land freight	▪ Remove obstacles along the transport route. ▪ Ensure that transport vehicles are equipped with two tested and certified CO₂ fire extinguishers. ▪ Speeding is strictly prohibited. Speed limits: 70 km/h on highways, 40 km/h on urban roads, and 50 km/h when turning. Sudden acceleration and emergency braking are also prohibited. ▪ If the equipment exceeds the weight limit for ordinary roads, obtain an overweight transportation permit from the local authorities. ▪ Transport vehicles with twist locks are recommended. If twist locks are unavailable, the product shall be fixed at both the top and bottom with lashing straps to prevent shifting and rollover. ▪ If transportation on sloped roads is necessary, equip the vehicle with additional traction equipment.

3.3 Equipment Handling

3.3.1 Forklift



DANGER

- During forklift operation, unrelated personnel must keep at least a 2m safe distance; standing or riding on the forklift or cargo is strictly prohibited.
- Overloading and lifting loads too high are strictly prohibited to avoid forklift instability and rollover risks.
- Only certified professional forklift operators may perform operations;

unauthorized operation by non-professionals is forbidden. Strictly follow all clauses; violators bear full responsibility for equipment damage and personal accidents.

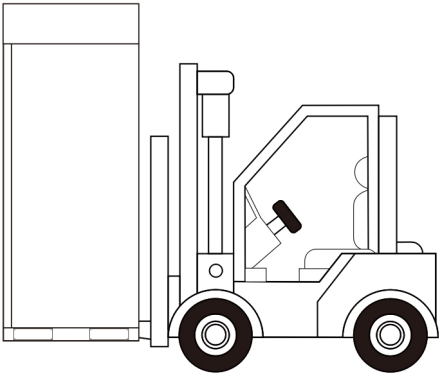
Forklift Requirements

Item	Description
Load capacity	> 5 t
Fork length	≥ 2.5 m
Fork width	80 – 160 mm
Fork thickness	25 – 70 mm

Fork Positioning & Loading:

Insert forks strictly into the designated "Forklift Fork Insertion" mark ( ↓) on the packaging.

When lifting heavy or unbalanced loads, align with the center of gravity mark () to ensure balance.



Driving & Steering:

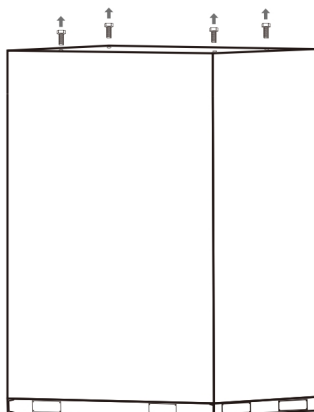
- Driving speed shall be strictly controlled below 3 miles per hour (3mph). Sharp turns are strictly prohibited to avoid cargo shaking and imbalance.
- Before reversing, the forklift operator must carefully check the rear area and confirm safety before reversing. When reversing in confined spaces, a special commander must be arranged to guide the operator throughout the process.
- Operating forklifts on slopes with a gradient ≥5° is strictly prohibited. Slow down and operate carefully when lifting loads on uneven roads.
- Tilting or inverting the cabinet is strictly prohibited during the whole transfer process. If tilting or inversion is necessary under special circumstances, restore the cabinet

to upright position as soon as possible, and leave it standing for 2 hours before power-on.

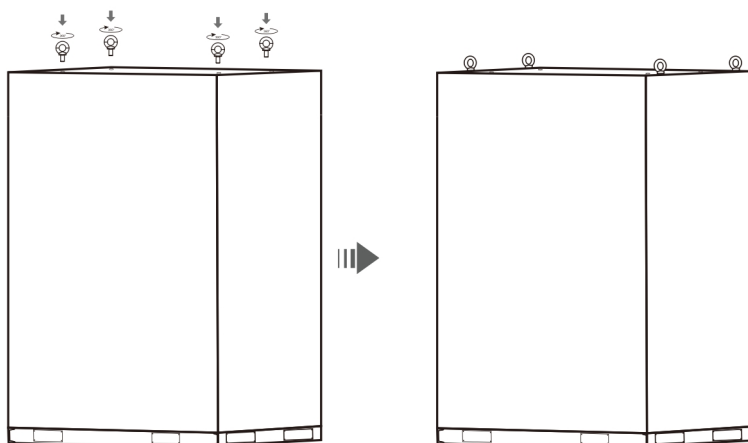
3.3.2 Hoisting

Before hoisting the product, follow the steps below to install the eyebolts.

1. Take 4 eye bolts from the accessory kit (refer to section **4.2 Unpacking**).
2. Remove the four pre-installed screws.



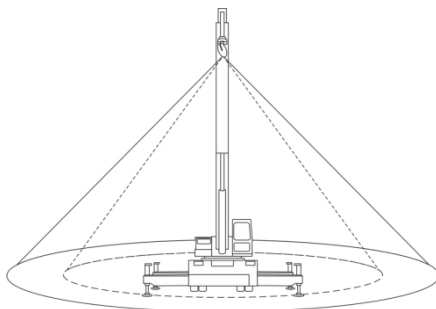
3. Insert eye bolts into the holes and rotate them clockwise until they are firmly secured.



DANGER

- Establish warning signs and a restricted area to prevent unauthorized personnel from entering the lifting zone.
- Keep all personnel at least 1 m away from the lifting area. No one is allowed to

stand under the boom or within the operating radius during the entire hoisting process.



- Hoisting operations are prohibited in adverse weather conditions such as typhoons, heavy rain, thick fog, or thunderstorms.
- Ensure lifting tools are correctly and securely connected to the equipment before hoisting. Improper connection may result in product damage, serious injury, or death.
- Use only approved and certified lifting equipment. Non-standard lifting tools are strictly prohibited.
- Hoisting shall be performed only by qualified personnel.



WARNING

- Before hoisting, inspect the crane, slings, and other rigging equipment to confirm that their load ratings meet the product's weight requirements.
- Ensure all equipment doors are closed and locked before hoisting.
- Position the crane appropriately; long-distance hoisting is strictly prohibited.
- Ensure all sling connections are secure and reliable, and that the slings attached to the equipment corner fittings are of equal length.
- A designated signal person must direct the entire hoisting operation to ensure coordinated movement.
- Keep the equipment stable and level during hoisting. Do not swing the crane to avoid sudden drops or impacts on the equipment.

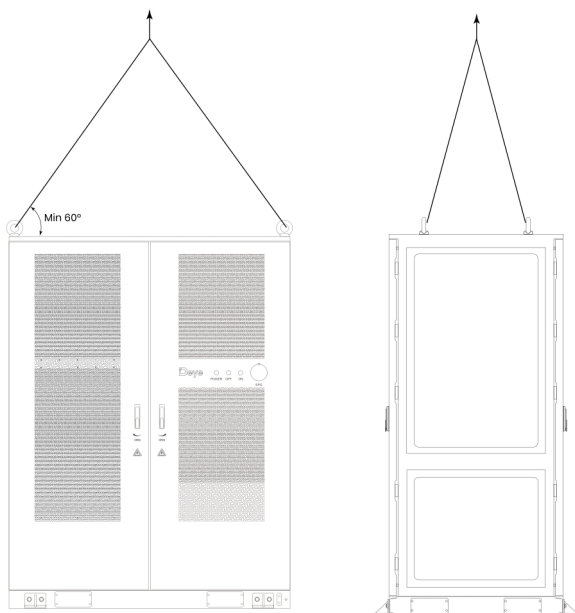


CAUTION

- Adjust sling lengths as required by site conditions to maintain hoisting balance.
- Hoist gently and lower the equipment slowly and smoothly into position. Avoid any impact or collision.
- Use vertical hoisting only. Do not drag the equipment on any surface during lifting, or when attaching or detaching lifting tools, to prevent scratches.
- It is recommended to hoist the equipment while keeping it horizontally stable to

ensure a smooth operation.

- Ensure the lifting capacity of the crane is not less than **5t** and the angle between the lifting sling and the horizontal plane is greater than 60°.



4 Installation



DANGER

- Do not expose the equipment to flammable or explosive gases, smoke, or any explosive environments, and do not operate the equipment in such environments. Otherwise, it may cause serious safety accidents such as fire, explosion, or equipment damage.
- There is a risk of static overload during the entire installation process, which may cause damage to building structures. Be sure to verify the site bearing capacity and anti-static measures in advance.



CAUTION

- Only qualified or trained personnel, who have mastered all necessary safety precautions and relevant applicable regulations, are permitted to install the equipment.
- Keep the equipment out of the reach of children and away from daily working or living areas.



WARNING

- The installation and usage environment must comply with relevant international and local laws and regulations. The user is obligated to protect the equipment against fire and other hazards.
- Product assembly must be carried out in strict accordance with the design scheme, process requirements, relevant regulations and national standards; unauthorized changes to assembly procedures are strictly prohibited.

4.1 Pre-Installation Preparation

4.1.1 Site Requirements



DANGER

- Do not install the equipment in low-lying areas where it may become submerged. The installation level must be at least 300 mm above the highest historical water level in the area. Do not install in any position that could be submerged in water.



WARNING

- Install the equipment in an outdoor area far from liquids. Do not install it under areas prone to condensation (e.g., under water pipes, air exhaust vents) or water

leakage (e.g., air conditioner vents, ventilation vents, equipment room feeder windows). Liquid ingress may cause equipment faults, short circuits, fires, or electric shock.

- To prevent high-temperature damage or fire, ensure that the equipment's ventilation vents and heat dissipation systems are not obstructed or covered by other objects during operation. Poor heat dissipation can lead to equipment overheating, fire, or explosion.
- To protect the equipment from wildfires caused by high summer temperatures, ensure there are no vegetation or flammable plants within 3 meters of the equipment. Wildfires can spread to the equipment, causing explosions or fires.
- For safety purposes, the distance between the equipment and residential buildings must be more than 12m, and the distance between the equipment and densely populated buildings (such as schools and hospitals) must be more than 30.5m. If this safety distance cannot be met, a firewall must be built between the equipment and the building to prevent fire or explosion hazards from affecting people.
- Outdoor equipment must be at least 10 feet away from boundaries, public roads, buildings, flammable materials, hazardous materials, high piles, and other non-grid-related hazards to reduce the risk of fire, explosion, or collision-induced accidents.
- The distance between the equipment's exhaust device and the air intakes of heating, ventilation, and air conditioning systems, windows, doors, discharge platforms, and fire sources of other buildings or facilities must be more than 4.6m to prevent the spread of harmful gases or fire.
- Do not install the equipment in places without proper fire-fighting facilities or where firefighters cannot easily access. In the event of a fire, lack of fire protection or accessibility will lead to the rapid spread of fire, resulting in serious injury or death.
- Do not install the equipment in an easily accessible location. The enclosure and heat sink of the equipment can reach high temperatures during operation, which may cause severe burns.
- Do not install the equipment in the following locations (including but not limited to):
 - Areas subject to severe vibration (such as ships, trains, or cars), intense noise, or strong electromagnetic interference;
 - Locations with dust, oil fumes, harmful gases, corrosive gases, and other pollutants;
 - Spaces where corrosive, flammable, or explosive substances are stored;
 - Areas with existing underground facilities;

- Ground with poor geological conditions, such as mucky soil and soft soil layers, which is prone to water accumulation and subsidence;
 - Spaces underneath reservoirs, water features, and water intake structures;
 - Seismic fault zones and regions with a seismic fortification intensity exceeding Grade 9.
 - Zones directly threatened by mudslides, landslides, quicksand, karst caves, and other geological disasters.
 - Areas within the scope of mining subsidence and ground displacement.
 - Regions inside blasting hazard zones.
 - Areas vulnerable to inundation caused by dam or dike failure.
 - Sanitary protection zones for key domestic water sources.
 - Protected zones of historical relics and cultural heritage sites.
 - Crowded public areas, high-rise buildings, and underground structures.
 - Urban road intersections and major traffic arteries.
- During the installation, commissioning, and operation of the equipment, ensure that each unit is equipped with no less than 2 fire extinguishers nearby. Insufficient fire-fighting equipment may result in uncontrollable fires, leading to death or serious injury.



CAUTION

- Do not install the equipment in areas conducive to the growth of microorganisms (such as fungi or mildew). Microbial growth may damage the equipment's surface or internal components, leading to malfunctions and potential minor injuries during maintenance.
- Do not install energy storage systems in salt-damaged or polluted areas. Corrosion caused by these environments may damage the equipment, leading to malfunctions and minor injuries during handling or maintenance.

The equipment must be installed in locations that meet the following criteria:

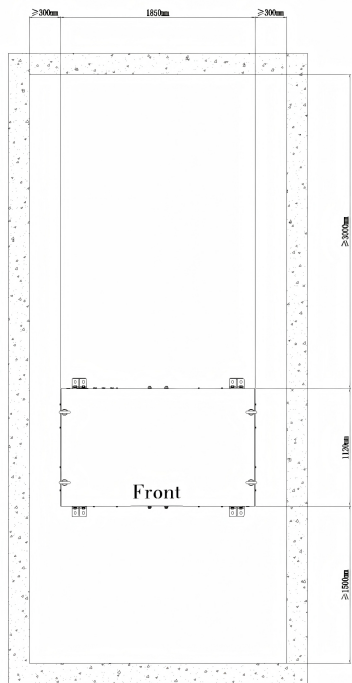
Condition	Required Distance	Examples
Distance from coast	More than 2000m	/
Distance from pollution sources	Heavy pollution sources: ≥1500m	Smelters, coal mines, thermal power plants
	Moderate pollution sources: ≥1000m	Chemical, rubber, electroplating
	Mild pollution sources: ≥500m	Food, leather, heating boilers, slaughter houses, centralized garbage dumps, sewage treatment stations

NOTE

- The safe distance between the equipment and production buildings shall comply with local fire codes or standards.
- Install the equipment in a clean, dry, and well-ventilated area with appropriate temperature, humidity, and altitude. For detailed parameters, refer to the ***Technical Specifications*** section.
- Reserve sufficient space for expansion according to the whole-life cycle needs of the energy storage system.

Recommended Clearance

The following clearance should be reserved before installing the system.



4.1.2 Foundation Requirements

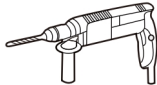
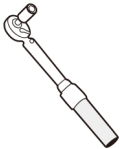
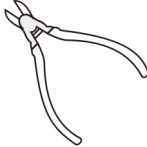
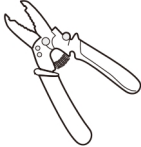
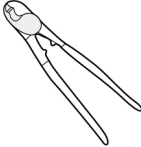
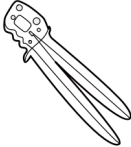
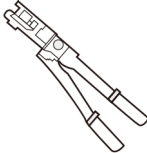
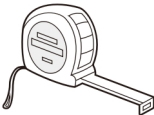
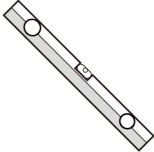
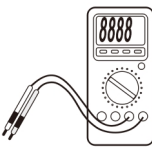
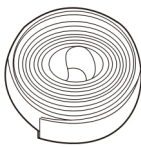
An inadequately designed foundation can cause installation difficulties, compromise cabinet door operation, and undermine overall system performance. Therefore, the foundation for the equipment must be carefully designed and constructed in strict compliance with applicable industry and local standards to ensure proper mechanical support, cable routing, and future maintenance access.

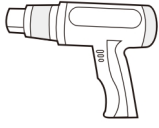
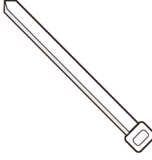
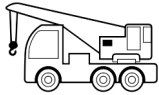
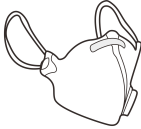
At a minimum, the following requirements shall be met.

Requirement	Description
General Requirements	
Surface material	Install cabinets on concrete or other non- combustible surfaces.
Surface condition	The surface must be level, stable, flat, and free of depressions or tilts, with sufficient load- bearing capacity.
Load capacity	The foundation must support the total weight of the equipment. If the bearing capacity is insufficient, re- verification is required.
Floor Edge Extension	130 mm beyond the cabinet fixing parts on each side
Foundation Construction Requirements	
Concrete grade & thickness	Default C30, 200mm thick, unless otherwise specified
Bedding layer	100 mm thick, C15 concrete below the slab
Reinforcing steel bars	HRB400 (Grade III), 12 mm diameter at 150 mm spacing
Corrosion protection	Apply standard anti- corrosion measures to steel bars after rust removal.
Bearing stratum	Undisturbed soil, bearing capacity ≥ 100 kPa
Construction & Excavation Requirements	
Foundation pit bottom	Thoroughly compacted and leveled
Excavation safety	Ensure proper safety measures for excavation support.
Water prevention after excavation	The pit must not be soaked. If water intrusion occurs, further excavation and replacement filling are required.
Surface leveling tolerance	Levelness error between foundation and cabinet contact surface ≤ 3 mm.
Height & Drainage Requirements	
Height above ground	≥ 300 mm above ground level, higher than local historical highest water level
Drainage system	Drainage facilities should be based on local geology and

4.1.3 Tool Requirements

Recommended installation tools and personal protective equipment are listed below and the pictures are for reference only.

Tools			
			
Hammer drill	Phillips insulated torque screwdriver	Flat-head insulated torque screwdriver	Insulated torque socket wrench
			
Diagonal pliers	Wire stripper	Cable cutter	Ferrule crimping pliers
			
Hydraulic pliers	Needle-nose pliers	Marker	Utility knife
			
Steel tape measure	Spirit level	Multimeter	Heat shrink tubing

			
Heat gun	Cable Tie	Insulated ladder	Forklift
			
Crane			
Personal Protective Equipment			
			
Insulated gloves	Protective gloves	Safety goggles	Dust mask
			
Insulated shoes	Safety helmet	Protective suit	

4.2 Unpacking



WARNING

- If the installation environment is not conducive to equipment protection, take measures to prevent internal component failure caused by condensation or dust corrosion (e.g., cover with woven cloth or dust cover).
- During component handling and storage, collision and scratch are strictly prohibited. Keep parts dry and rust-free to avoid damage and part failure.



CAUTION

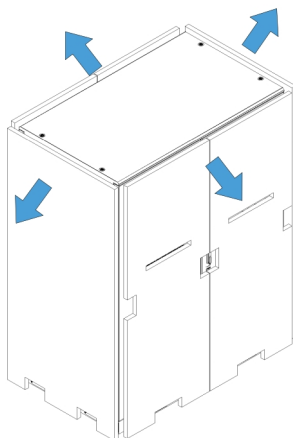
- If possible, do not remove the transport packaging until the equipment arrives at the installation site.
- After preparing the equipment for installation, unpack it carefully to avoid scratching the equipment.
- Keep the equipment stable during unpacking.

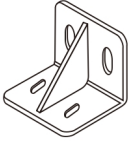
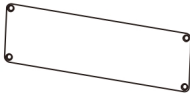
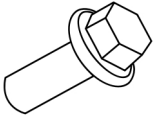
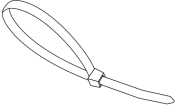
NOTE

- Keep the packaging material for future transportation or long-term storage.
- All components must be thoroughly cleaned before assembly to remove burrs, flash edges, oxide layers, rust, sand particles, dust and stains, ensuring a clean and impurity-free surface.

Unpack and inspect the equipment immediately upon receipt. Use a cutter or knife to unpack the equipment.

If the unit is damaged or missing accessories are found, contact the local distributor or the after-sales service department.



Packing List			
			
Cabinet Mounting Feet ×4 pcs	Forklift Pocket Cover ×8 pcs	M6*16 Cross-recessed Hex Head Bolt ×32 pcs	M10*35 Hex Bolt ×4 pcs
			
M16*150 Expansion Bolt ×8 pcs	M16*40 Hex Bolt (with spring washer and flat washer) ×8 pcs	M30 Eye bolt×4 pcs	Fire-proof Mud ×3kg
			
Cable Tie ×10 pcs			

Recommended Torque

Nominal thread diameter (mm)	T (N·m)	0.5T (N·m)	1.8T (N·m)	2.4T (N·m)
M1	0.0195	0.0098	0.035	0.047
(M1.1)	0.027	0.0135	0.049	0.065
M1.2	0.037	0.0185	0.066	0.088
(M1.4)	0.058	0.029	0.104	0.14
M1.6	0.086	0.043	0.156	0.205
(M1.8)	0.128	0.064	0.23	0.305
M2	0.176	0.088	0.315	0.42
(M2.2)	0.23	0.116	0.41	0.55
M2.5	0.36	0.18	0.65	0.86
M3	0.63	0.315	1.14	1.5
(M3.5)	1.0	0.5	1.8	2.4

M4	1.5	0.76	2.7	3.6
(M4.5)	2.15	1.08	3.9	5.2
M5	3.0	1.5	5.4	7.2
M6	5.2	2.6	9.2	12.2
(M7)	8.4	4.2	15.0	20.0
M8	12.5	6.2	22.0	29.5
M10	24.5	12.5	44	59
M12	42	21.0	76	100
M14	68	34	122	166
M16	106	53	190	255
(M18)	146	73	270	350
M20	204	102	370	490
(M22)	282	140	500	670
M24	360	180	650	860
(M27)	520	260	940	1240

NOTE

- Strictly adhere to the specified torque values to prevent over-tightening or under-tightening.
- The torque value is for reference only for standard bolts during normal assembly; adjust appropriately for special working conditions (high vibration/harsh environment).
- Use a calibrated torque wrench for installation to ensure torque accuracy.

4.3 Installation Procedures

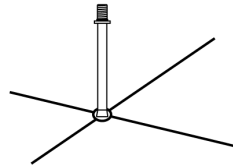
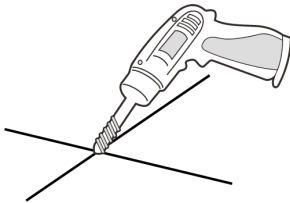
4.3.1 Install the Cabinet Mounting Feet

NOTE

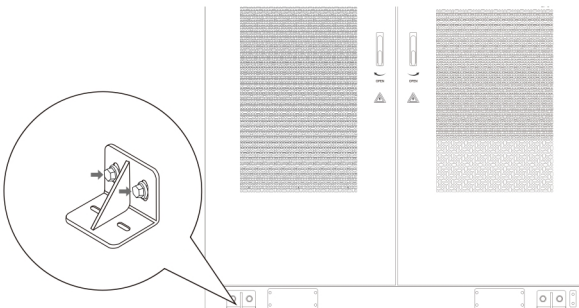
- Before securing the cabinet, ensure the installation site and foundation meet the requirements in this manual and comply with local regulations.
- Due to variations in drilling accuracy and bit material, it is recommended to use a drill bit with a diameter ranging from $\Phi 20.5$ to $\Phi 21$.

To secure the cabinet to the ground, install the four cabinet mounting feet:

1. Position the cabinet at the installation site.
2. Attach the mounting feet to the cabinet using the M16*40 hex bolts. Do not tighten the bolts.
3. Mark hole positions on the ground with a marker.
4. Remove the M16*40 hex bolts and mounting feet, and drill holes with a hammer drill. Then, insert 8 pieces of M16*150 expansion bolts into the drilled holes and tap the expansion sleeves until they are fully seated.

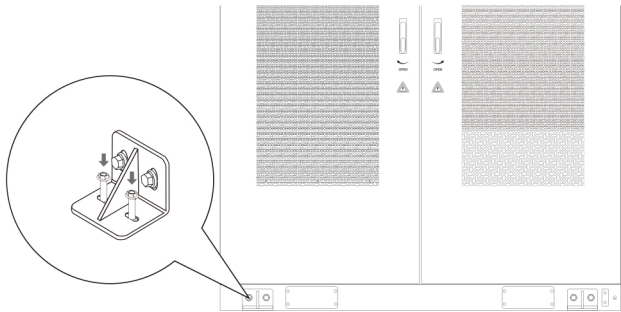


5. Slide the mounting feet over the expansion bolt studs. Then, secure mounting feet to the cabinet with M16*40 hex bolts.



6. Place the washers and nuts onto the studs and tighten the expansion bolt nuts to

secure the cabinet to the ground (Recommended torque: 140 N·m).

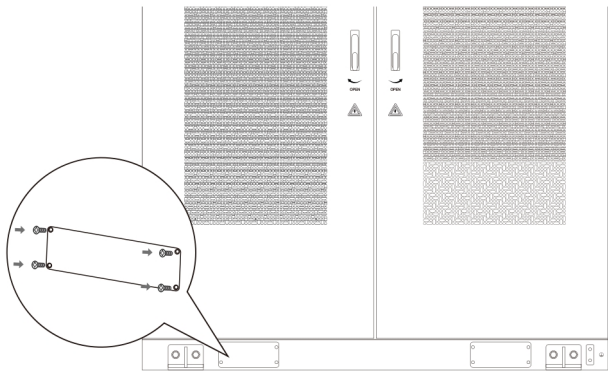


4.3.2 Install Forklift Pocket Covers

NOTE

- Do not install the forklift pocket covers until the cabinet is fully secured in its final location and the installation site has been verified to meet all requirements in this manual and all applicable local safety regulations.

Secure the 8 forklift pocket covers to the forklift pockets at the bottom edge of the cabinet using 32 M6×16 bolts (4 per cover). Tighten the bolts to a torque of 6 N·m.



5 Electrical Connection

5.1 Safety Precautions



DANGER

- All electrical connections must be performed only when the equipment is completely de-energized and isolated from all power sources.
- Do not expose the equipment to flammable or explosive gases, smoke, or any explosive environments.
- Always wear appropriate PPE and use only dedicated insulated tools when working on energized circuits to prevent electric shock, personal injury, or equipment damage.



WARNING

- Only qualified electrical professionals can perform the electrical connection.
- The product can only be used in situations equipped with overvoltage protection devices.
- Do not perform electrical connections in the event of severe weather.
- Do not contact live parts directly without protection.
- Before cable connection, ensure that there is no voltage on the AC side and DC side.
- Ensure correct polarity during wiring: connect positive (+) to positive (+) and negative (-) to negative (-).
- Before connecting cables, check that the polarity of all input cables is correct. Do not pull wires and cables forcibly during electrical installation; otherwise, the insulation performance may be affected. Ensure all cables have sufficient bending space and take necessary auxiliary measures to reduce cable stress.
- When preparing cables, keep clear of the equipment at all times. Cable debris entering the equipment may cause electrical arcing, which can result in serious personal injury or equipment damage.
- All grounding connections must be completed and verified before connecting any high-voltage circuits.

NOTE

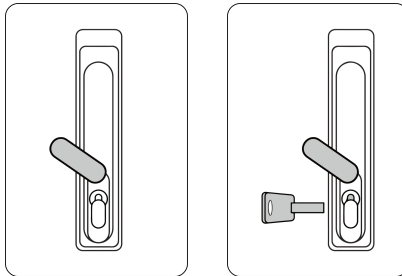
- After cable connection, carefully verify that all connections are correct and secure.

5.2 Access the Cabinet Interior

5.2.1 Open the Cabinet Door

The cabinet door is locked before delivery. Before cable connection, open the cabinet door as follows:

1. Slide the protective cover upward to expose the keyhole.
2. Insert the door key into the keyhole and turn it clockwise to unlock the handle.
3. Rotate the handle in the indicated direction to open the door.

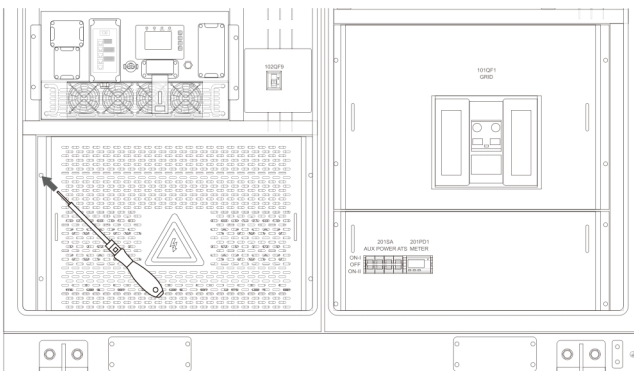


NOTE

- After completing all connections and all wiring, securely lock the cabinet door and keep the key.

5.2.2 Remove the Protective Baffle

To access the terminal areas for external wiring, remove the corresponding protective baffles before connection. Loosen the fixing screws with a screwdriver to remove the baffles, and reinstall them after wiring is finished.

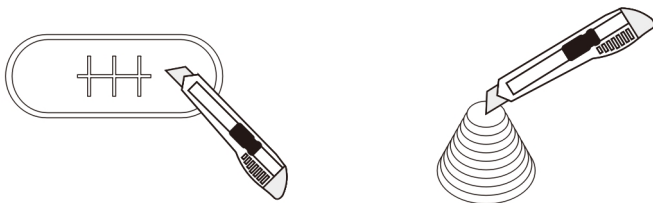


5.2.3 Prepare the Cable Inlet

NOTE

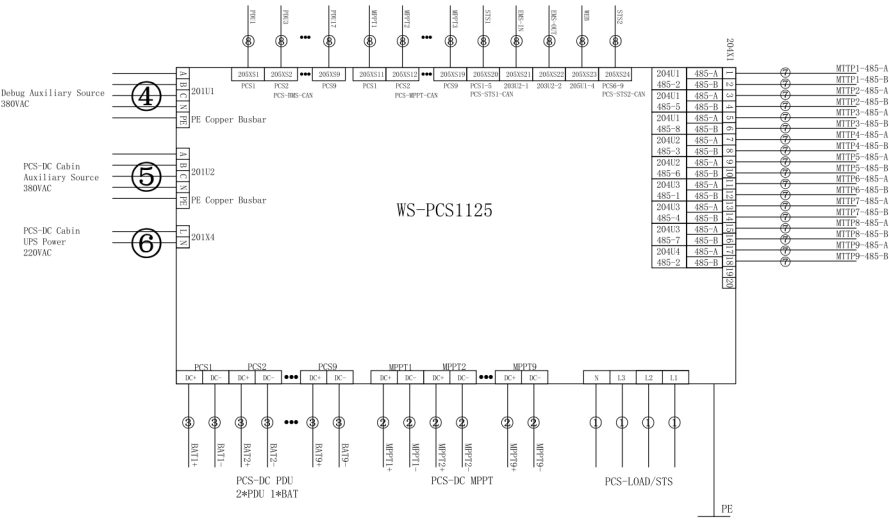
- Select the appropriate cable inlet according to your cable routing plan to ensure neat cable management.

1. Locate the designated cable inlet at the bottom of the cabinet.
2. Cut a slit on the rubber grommet with a utility knife, and remove all debris from the cabinet interior.



5.3 Cable Preparation

5.3.1 Recommended Cables



Cable	Phase	Recommended size	Terminal	Quantity
1	L1/L2/L3/N	240mm ²	DT240-16	4*4
2	MPPT+/MPPT-	70mm ²	SC70-8	9*2
3	BAT+/BAT-	70mm ² /50mm ²	SC70-8	9*2/18*2
4	A/B/C/N	25mm ²	ENY25-16	1*4
	PE	16mm ²	SC16-8	1
5	A/B/C/N	25mm ²	ENY25-16	1*4
	PE	16mm ²	SC16-8	1
6	L/N	2.5mm ²	ENY2510	1*2
	PE	2.5mm ²	OT2.5-4	1
7	485-A/485-B	STP 1.5mm ²	ENY1510	9
8	CAT5E	/	/	24
PE	/	Galvanized flat steel, 50×5 mm ²	/	Prepared as required

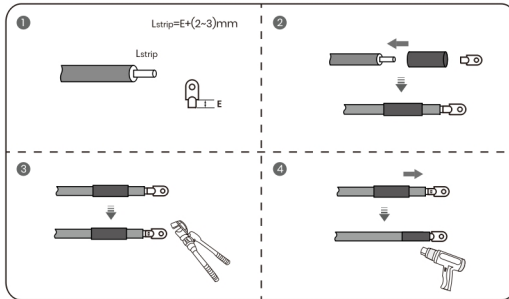
NOTE

- All specifications listed above are recommendations and may be adjusted to suit on-site conditions.

5.3.2 Terminal Crimping

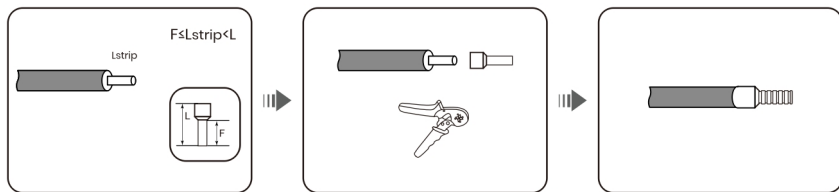
Crimp SC/OT/DT Terminals

1. Strip the cable insulation to the length 2-3mm longer than the terminal barrel length.
2. Slide the heat shrink tubing onto the cable, and insert the core wire fully to the bottom of the terminal barrel.
3. Crimp the terminal firmly with a matching hydraulic crimping tool.
4. Move the heat shrink tubing over the terminal barrel and apply a heat gun until it tightly seals and insulates the joint.



Crimp Cord-End Terminals

1. Strip cable insulation to the specified stripping length L_{strip} ($F \leq L_{strip} < L$).
2. Insert the core wire fully to the ferrule barrel.
3. Crimp the terminal securely with ferrule crimping pliers.



5.4 Cable Connection

5.4.1 Equipment Grounding



WARNING

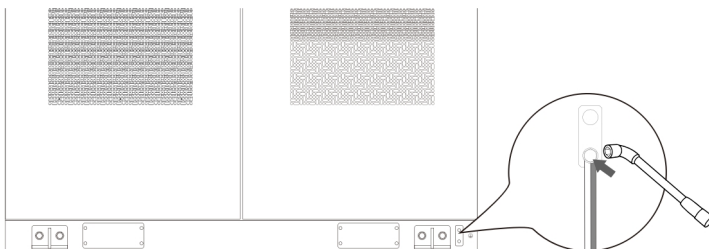
- Ensure the grounding conductor is securely connected to prevent electric shock.



CAUTION

- After completing the grounding connection, grounding resistance must be measured and must comply with applicable international/local standards and regulations.

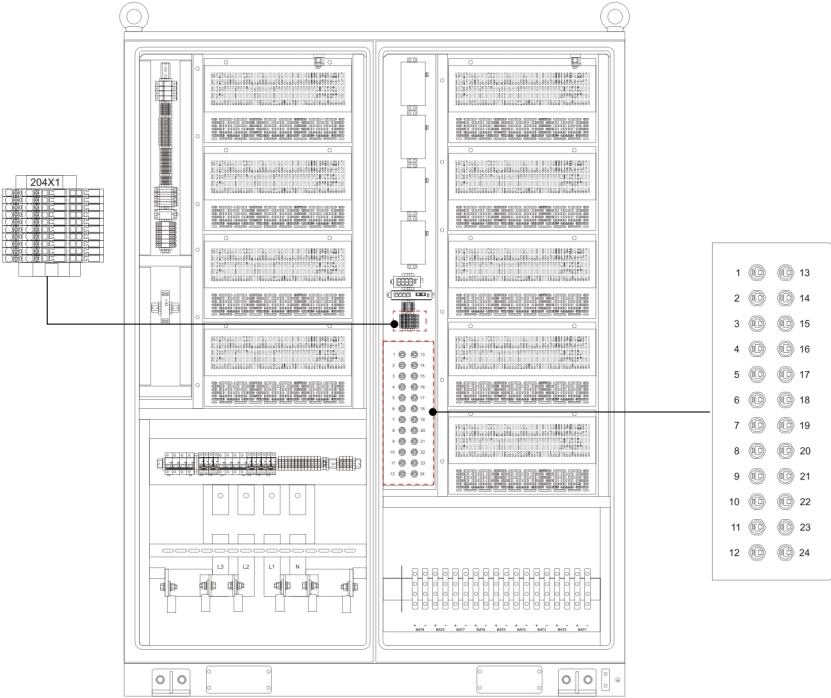
1. Ensure the cabinet is fully de-energized.
2. Verify the PE terminal marking on the cabinet is intact and legible.
3. Attach one end of the galvanized flat steel ($50 \times 5 \text{ mm}^2$) to the PE terminal at the cabinet bottom using the provided M10 $\times$ 35 hex bolt and the other end to the on-site grounding grid.



5.4.2 Connect Communication Cables

This cabinet provides multiple communication ports for connecting to external devices. Connect communication cables according to the following steps.

1. Ensure the cabinet and all connected external equipment are fully de-energized.
2. Open the cabinet rear door and locate communication ports.
3. Verify all the terminal markings are intact and legible.
4. Connect one end of the communication cable to the external equipment; the other end to the designated communication ports.

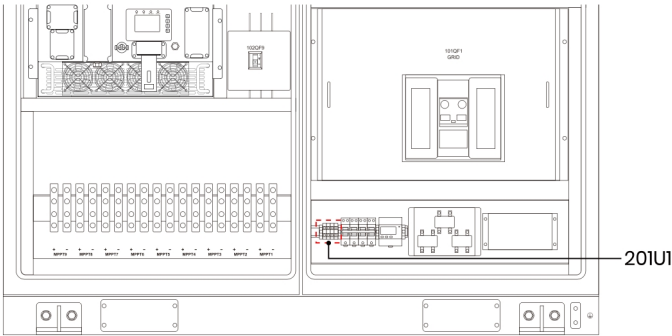


Rear Internal View

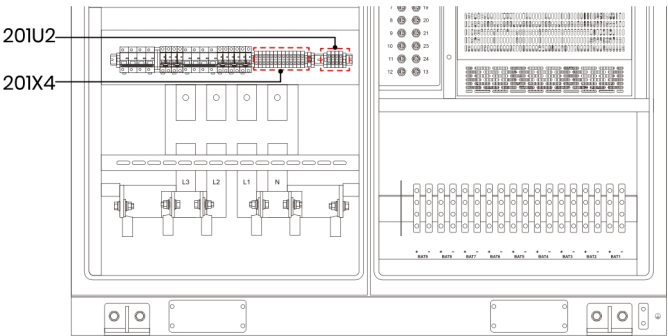
Terminal Block	Position	Description	Recommended Cable
204X1	1-18	MPPT Serial Server RS485	STP 1.5 mm ²
205XS1-24	1-9	PCS-BMS-CAN	CAT5E
	10	BA-LC	
	11-19	PCS-MPPT-CAN	
	20	STS1, PCS1-5	
	21, 22	Ring IN, Ring OUT	
	23	PCS6-PARA	
	24	STS2, PCS6-9	

5.4.3 Connect Auxiliary Power Cables

1. Ensure the cabinet and the auxiliary power sources are fully de-energized.
2. Open the cabinet front door and locate the 201U1 terminal block and open the rear door to locate 201U2 and 201X4 terminal blocks. Verify all the terminal markings are intact and legible.
3. Connect the cables to the corresponding terminals specified below.



Front Internal View



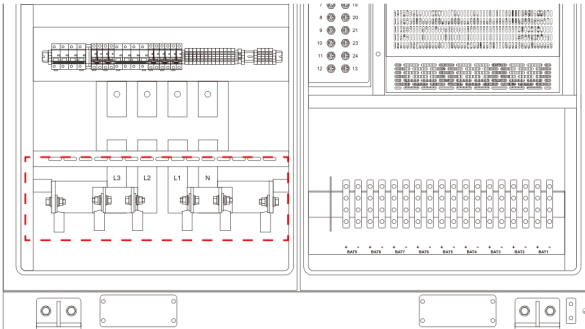
Rear Internal View

Terminal Block	Description	Phase	Recommended Cable
201U1	Connected to an external auxiliary source for commissioning; during normal operation it is not required as the auxiliary power is derived from the main circuit.	A/B/C/N	Terminal: ENY25-16 Size: 25mm ²
		PE	Terminal: SC16-8 Size: 16mm ² Bolt: M8
201U2	Auxiliary power output to the WS-	A/B/C/N	Terminal: ENY25-16

	L4300 battery storage system		Size: 25mm ²
		PE	Terminal: SC16-8 Size: 16mm ² Bolt: M8
201X4: 1/2	Connected to the UPS of the WS-L4300 battery storage system	L/N	Terminal: ENY2510 Size: 2.5mm ²
		PE	Terminal: OT2.5-4 Size: 2.5mm ² Bolt: M4

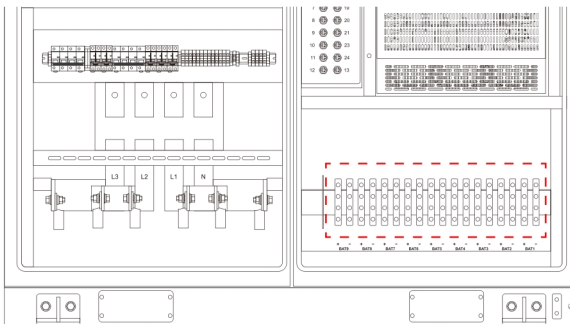
5.4.4 Connect Power Cables

1. Ensure the cabinet and external power sources are de-energized.
2. Open the cabinet door and locate the STS/BAT/MPPT terminal blocks.
3. Verify all the terminal marking are intact and legible.
4. Connect the power cables according to your system configuration.
 - AC Power Cable: Connected with the WS-TS1000 junction panel cabinet.



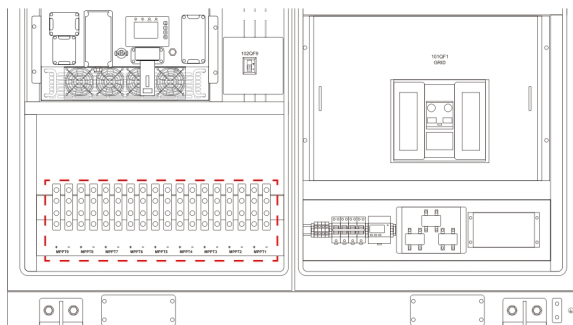
Rear Internal View

- Battery DC Power Cable: Connected with the WS-L4300 battery storage system.



Rear Internal View

- MPPT DC Power Cable: Connected with MPPT modules.



Front Internal View

Terminal Block	Position	Description	Recommended Cable
STS	L1/L2/L3/N	STS connection	Size: 240mm ² Terminal: DT240-16; Bolt: M16 4 cables per pole for L1/L2/L3/N
BAT	BAT1+/- ~ BAT9+/-	Battery storage system connection	Size: 70 mm ² /50 mm ² Terminal: SC70-8; Bolt: M8 70 mm ² : 1 cable for each positive and negative pole 50 mm ² : 2 cables for each positive and negative pole
MPPT	MPPT 1+/1 ~ MPPT 9+/-	MPPT connection	Size: 70 mm ² Terminal: SC70-8; Bolt: M8 1 cable for each positive and negative pole

5.4.5 Apply Fire-Proof Mud

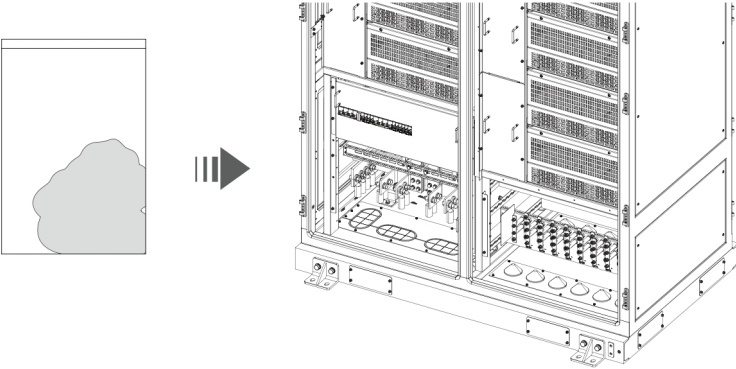


CAUTION

- The fire-proof mud must be applied where cables pass through the cabinet bottom.
- Before applying the fire-proof mud, pull the cables slightly by hand to ensure secure connections.

After completing the wiring, use the fire-proof mud to seal the bottom cable inlet.

Only the holes through which cables are routed need to be sealed.



6 Operation

6.1 Check Before Power-On

No.	Item	Criteria
1	Equipment Appearance	● Equipment is intact, no rust or paint flake-off. Repair damaged paint if any. ● Device labels are clear. Replace damaged labels if any. ● Door lock of each cabinet functions properly.
2	Cabinet Installation	● Installation site and foundation meets design requirements. ● Cabinet is level and secured by mounting feet. ● Clearance around the cabinet meets requirements.
3	Cabinet Grounding	● Cabinet grounded correctly with the ground cable securely connected to the cabinet PE terminal.
4	Switch/circuit breaker	● All circuit breakers are in the "OFF" position. ● All disconnectors are in correct position.
5	Cable	● Cables are intact with sheathings wrapped properly. ● Cable specifications meet the requirements and terminals are prepared as required. ● Cables are connected in designated positions ● Labels at both ends of cables are clear. ● Cables are placed properly and with slack at bending points to avoid stress. ● Cables are routed neatly without twists or crossovers in the cabinets.
6	Cable Inlet Sealing	● Cable inlets are sealed using cable cover or fire-proof mud.
7	Ventilation/Heat Dissipation	● Fans and cooling vents are unobstructed.

6.2 Power-On



DANGER

- Wear insulated gloves and use insulated tools at all times to prevent electric shock or short circuits.
- Monitor the system during power-on. If any fault is detected, power off the system immediately, rectify the fault, then resume operation.



WARNING

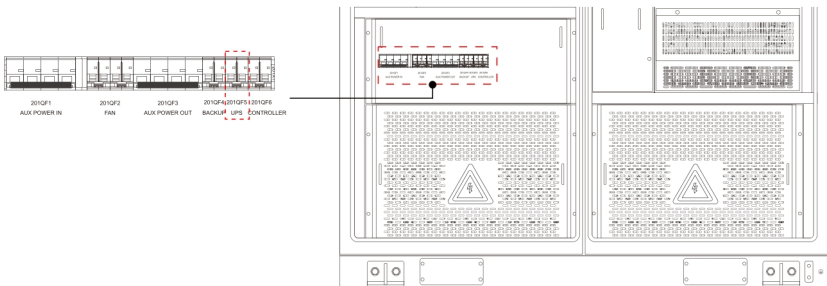
- If the installed system remains unused for 6 months or longer, it must be inspected and tested by qualified personnel before being put back into operation.
- If any circuit breaker inside the system trips, inspect the corresponding load side for faults.
- Only restore the circuit breaker after confirming no short circuit or other abnormality exists, to prevent fault escalation and potential hazards.



CAUTION

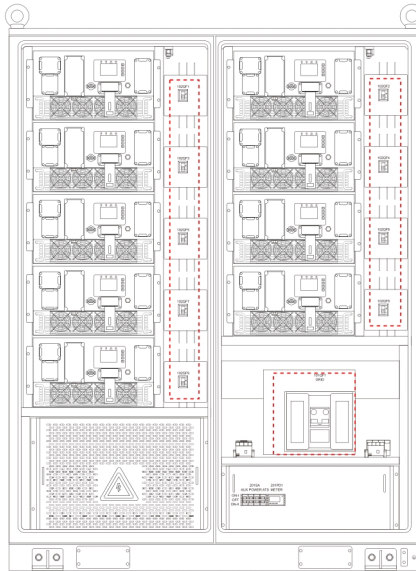
- Remove all desiccants from the equipment before initial power-on and long-term operation, and dispose of them in accordance with local waste regulations.
- Clear the equipment working area, and strictly prohibit unrelated personnel and animals from entering the operation range.
- Keep foreign objects, especially metal debris, away from the cabinet interior to avoid short circuit risks.

1. Close the circuit breaker **201QF5** to energize the UPS circuit.



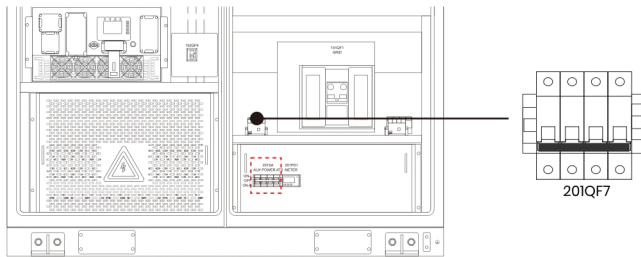
Rear Internal View

2. Close circuit breaker **101QF1**, and then sequentially close breakers **102QF1 to 102QF9** to start the main power circuit.

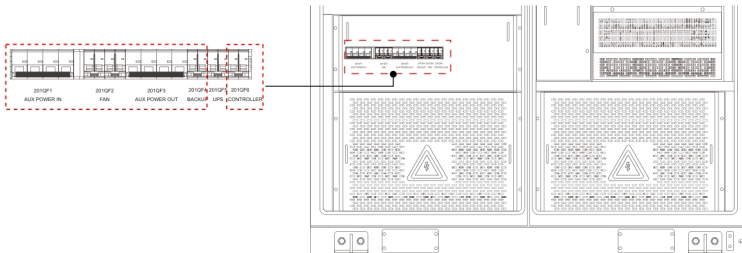


Front Internal View

3. Close the following switches in sequence to start the auxiliary power circuit: **201SA**, **201QF1**, **201QF2**, **201QF3**, **201QF4** and **201QF6**. Remove the baffle at the circuit breaker **101QF1**, and then locate and close the circuit breaker **201QF7**.



Front Internal View



Rear Internal View

6.3 Power-Off

6.3.1 Normal Power-Off Procedure

1. Send the shutdown command to stop the system and the PCS, and then confirm the shutdown status.
2. Open the PCS AC-side circuit breakers 102QF1 to 102QF9, and then open the circuit breakers in sequence: 201QF7, 201QF6, 201QF5, 201QF4, 201QF3, 201QF2, 201QF1 and 101QF1.

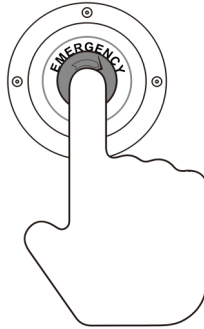
6.3.2 Emergency Power-Off Procedure



WARNING

- Do not press the EPO button during normal system operation or when no emergency condition exists.
- Only after confirming that the fault has been completely cleared can you start the system again.

In an emergency, immediately press the EPO button to shut down the system. Perform a safety check and open all circuit breakers.



7 Product Monitoring

7.1 Energy Management System

The cabinet can be monitored via the MS-EMS Energy Management System (EMS), which is the core control unit for energy storage systems, responsible for overall operation monitoring, energy dispatch, safety protection, and data analysis.

For detailed operation and configuration instructions, please refer to the EMS user manual.

Scan the QR code below and enter the keyword “EMS” to obtain the manual.



7.2 Deye ESS App

Follow the steps below to add the equipment to your station on the Deye ESS App:

1. Scan the QR code to download the app.



2. Ensure your equipment is connected to network via 4G or an Ethernet cable.
3. Log in to the Deye ESS Energy Management System (EMS). Click **Create Station** → **Create QR Code** to generate a QR code. Ensure **Cloud Mode** is set to 4G mode or Ethernet mode according to your actual conditions.
4. Open the Deye ESS App and scan the QR code to add the equipment.

8 Maintenance

8.1 Safety Precautions



DANGER

- Fully de-energized the equipment before any maintenance.
- Maintenance shall be performed or supervised by qualified professional personnel.
- Wear personal protective equipment (PPE) and use dedicated insulated tools to avoid electric shocks or short circuits.
- Do not smoke or have open flames in the vicinity of the equipment.
- Do not wear jewelry, watches or other metallic accessories during maintenance.
- Do not service or maintain the equipment in extreme weather conditions.



WARNING

- Residual voltage may remain in the circuit even after the power is disconnected. Wait for at least 5 minutes and verify zero voltage with a standard professional voltmeter before any operation.
- Maintenance shall follow the sequence: equipment de-energization, lockout/tagout to prevent re-energization, zero-voltage verification, residual charge discharge and equipment grounding, and insulation shielding of adjacent live parts.
- Install a lockout device on the switch and attach a warning tag to indicate that the switch must not be operated.
- Improper decommissioning may cause damage to equipment. Ensure the product is decommissioned in accordance with relevant provisions before maintenance.
- Do not clean the equipment with water or any solvent.



CAUTION

- Before maintenance, set up warning signs or safety barriers to prevent unauthorized access.
- Use an electroscope of the proper voltage level to verify the equipment is completely de-energized.
- Before maintenance or repair, securely connect the circuit to be serviced to the main grounding system. Remove the grounding connection upon completion.
- Ensure that the air inlets and outlets are not blocked. Remove any debris around the vents to guarantee proper heat dissipation.
- Insert and remove cables in accordance with regulations; violent or forced operations are prohibited.
- Clean tools and materials promptly after maintenance, and check for any metallic

objects left inside or on top of the product.

- Contact the customer service center for any operation and maintenance queries; unauthorized operation is prohibited.
- A full inspection and test shall be performed upon completion of maintenance before the equipment is powered on again.

8.2 Maintenance Schedule

Maintenance work shall be carried out based on actual on-site conditions.

Maintenance Item	Description	Frequency
Environment & Safety	Check that temperature and humidity inside/outside the equipment are within reasonable ranges.	1 day
	Ensure no flammable or explosive materials around the equipment.	1 day
	Check that warning labels are legible and intact.	1 day
	Check heat dissipation modules and vents for blockage; clean with a vacuum cleaner if necessary.	3 months
	Check if the fire-proof mud is with good adhesion and foundation intact and smooth	12 months
Appearance & Structure	Check that status indicators are in normal condition.	1 day
	Ensure no foreign objects wrap or cover the equipment enclosure.	1 day
	Check the equipment for paint peeling/ rust, door lock damage and blocked vents.	3 months
	Check internal screws for loss and rust.	12 months
Internal Components	Check the fan function and clean the fan surface to maintain proper dissipation.	3 months
Electrical Connections	Check all cables for loose connection, damage and water ingress.	3 months
	Reliable grounding and equipotential bonding	12 months
System	Check the system operates without alarm information via EMS or Deye Cloud.	1 day

8.3 Post-Maintenance Requirements

After completing maintenance operations, follow the steps below to restore the site and archive the maintenance records:

Step	Operation
1. Cleaning & Restoration	Remove all temporary measures (e.g., grounding and warning signs) and wiring is restored to original condition. Prevent foreign objects from being left behind or personnel from inadvertently entering.
2. Power-up & Verification	Restore system power step by step per the power-up procedure. Verify that the system has no alarms and operating parameters are normal.
3. Recording & Archiving	Create traceable maintenance records, including the time, personnel and equipment status, and archive the records.

8.4 Storage

NOTE

- For long-term storage, keep the original packaging and check it regularly.



WARNING

- Keep the product far away from high-temperature heat sources, open flames, flammable and explosive areas, and all ignition sources, and do not expose it to direct sunlight or rain.
- During storage, ensure the product is completely disconnected from external equipment, with all operation indicators off.
- Store the product in a dry, clean, well-ventilated indoor area on flat, solid ground, away from strong infrared radiation, organic solvents, corrosive gases, and conductive metal dust.
- Handle with care. Dropping, collision, overturning, side placement, or tilting are strictly prohibited. Do not stack or roll the product improperly.
- Strictly comply with the storage requirements of the warning signs and other information on the packaging to avoid device damage.
- The storage area must be equipped with qualified fire-fighting facilities, including fire sand and special fire extinguishers.

Long-Term Storage Requirements

- Replace desiccants with the same specifications and quantity regularly.
- Check the outer packaging every 3 months, and replace damaged packaging immediately.
- Storage duration is calculated from the latest charge date marked on the packaging. If the allowable storage period is exceeded, report to the person in charge immediately.
- Maintain temperature and humidity per the storage requirements.

9 Technical Specifications

Model	WS-PCS1125-2-A
PCS Data	
AC Rated Power	1125kW (9×125kW)
AC Rated Voltage / Frequency	400Vac / 50Hz (3L+N+PE)
AC Rated Current	1624A (9×180.4A)
Power Factor	-1 ~ +1
Battery Input Voltage Range	630Vdc ~ 1000Vdc
Max. Charging / Discharging Current	1710A (9×190A)
System Data	
Operating Temperature	-30°C ~ +55°C(>40°C de-rate)
Humidity	0 ~ 95% (No condensation)
Ingress Protection	IP54
Anticorrosion grade	C4-M (Optional C5)
Altitude	≤ 3000m
Weight	≤ 2000kg
Dimensions (W×D×H)	1850×1120×2450mm
MPPT Input Data	
MPPT Input Range	180 ~ 750 Vd.c.
Max. PV Input Voltage	800 Vd.c.
Max. PV Input Current	9*(40A+40A+40A+40A+40A+40A+40A+40A) d.c.
Max. PV Isc	9*(60A+60A+60A+60A+60A+60A+60A+60A) d.c.

Appendix I Troubleshooting

If any fault occurs, contact the service center or service engineers for help.

Appendix II Emergency Handling



DANGER

- In the event of natural disasters (earthquake, typhoon, flood, wildfire, etc.): Prioritize personnel safety, cut off power and stop the ESS immediately.
- Do NOT operate damaged equipment without professional inspection and qualified testing after the disaster.
- Keep away from waterlogged or fire-damaged units and contact our service engineers for professional handling.



WARNING

- When the air intake/exhaust system is operating, do NOT face the exhaust vents under any circumstance.
- Refer to the user manual/product manual for product information. Do NOT open the cabinet door if internal safety cannot be guaranteed.

➤ **Fire/Explosion Hazards**

- Do not open the door. Evacuate immediately to at least 50 meters away from the site and call the fire department.
- Wear respiratory protection. Disconnect the upstream power supply only when safe.
- Isolate the accident area only when safe to keep unauthorized personnel away.
- Post-incident maintenance must be performed by professionals or our after-sales engineers.

➤ **Electric Shock**

- Ensure personal safety, then disconnect the power supply immediately to avoid secondary electric shock.
- Use an insulated object to separate the victim from the power source and perform first aid such as cardiopulmonary resuscitation (CPR).
- Call the emergency medical number immediately to obtain professional medical treatment.
- Protect the accident scene for investigation and evidence preservation.
- Contact professionals to conduct a comprehensive inspection of the ESS. The system may only be put back into use after repair or replacement and passing qualified testing.

➤ **Chemical Hazards**

- In case of electrolyte leakage, evacuate personnel from the affected area and notify the relevant personnel immediately. Professionals shall conduct safe collection and proper disposal of leaked substances.
- Toxic gases may be released during battery combustion or damage; evacuate personnel to a safe area immediately. If personnel are exposed or injured, call the emergency medical number for professional treatment. Respiratory protection, protective clothing and other safety equipment must be worn during hazard handling.

➤ **Mechanical Injury**

- In the event of equipment tipping, dropping or component detachment, disconnect power and stop system operation immediately.
- In case of personnel injury, administer first aid (hemostasis, bandaging, etc.) and call the emergency medical number immediately.
- If obvious odor, damage, smoke or fire is detected, evacuate personnel immediately, call the fire department, and allow professionals to handle firefighting and subsequent treatment.
- If any abnormalities are observed, professionals shall move the battery pack to an open, safe area, let it stand for 1 hour while monitoring temperature, and contact the engineers.
- Contact professionals to repair or replace damaged components. The system may only be returned to service after passing inspection and testing.

➤ **Natural Disasters**

- In the event of natural disasters including earthquake, typhoon, flood, wildfire, etc., disconnect the power supply and stop ESS operation immediately.
- If the ESS is submerged or flooded, do not touch the equipment and keep clear of the waterlogged area.
- Do not use water-soaked batteries under any circumstances. Contact a qualified battery recycling service for proper disposal and scrapping.
- Before a wildfire approaches, establish a firebreak around the ESS and prepare adequate fire-fighting equipment such as fire extinguishers, fire sand, fire hoses, etc.
- After the disaster, contact professionals to fully inspect the support structure, electrical connections, etc. The system may only be reused after repair/replacement and qualified testing.

Appendix III Declaration of Conformity



260629080

www.deyeess.com

EU Declaration of Conformity

Product: Photovoltaic and Battery Hybrid Inverter System

System model: WS-PCS1125-2-A

Name and address of the manufacturer: NINGBO DEYE ESS TECHNOLOGY CO., LTD.

No.568, South Rixian Road, Binhai Economic Development Zone, Cixi, Ningbo, Zhejiang, P.R.China

This declaration of conformity is issued under the sole responsibility of the manufacturer. Also this product is under manufacturer's warranty.

This declaration of conformity is not valid any longer; if the product is modified, supplemented or changed in any other way, as well as in case the product is used or installed improperly.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

The Electromagnetic Compatibility (EMC) Directive 2014/30/EU; the Low Voltage Directive (LVD) 2014/35/EU.

References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

EMC:	
EN IEC 61000-6-2:2019	●
EN IEC 61000-6-4:2019	●
LVD:	
IEC 62109-1:2010 IEC 62109-2:2011 EN 62109-1:2010 EN 62109-2:2011	●

Nom et Titre / Name and Title:

KunLei Yu *KunLei Yu*
Test Manager

Au nom de / On behalf of:
Date / Date (yyyy-mm-dd):
A / Place :

NINGBO DEYE ESS TECHNOLOGY CO., LTD.
宁波德业储能科技有限公司
2026-6-29
NINGBO DEYE ESS TECHNOLOGY CO., LTD
Ningbo, China

EU DoC -VI

NINGBO DEYE ESS TECHNOLOGY CO., LTD

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