



Installation Manual

Floor-Based Electrical Cabinet
(For inverter and battery system integration)



Safety Precautions

***IMPORTANT: Read all instructions before starting installation.
Installation must be carried out by qualified and licensed electrical personnel.***

- Isolate all power supplies before beginning any work.
- Always wear appropriate PPE: insulated gloves, safety footwear, and eye protection.
- The cabinet is heavy. Use suitable lifting equipment or at least two people to move it safely.

Tools and Materials

Ensure the following are available before installation:

- Insulated screwdrivers
- Adjustable spanner set
- Spirit level
- Drill and wall plugs (if fixing is required)
- Cable glands and ferrules
- Multimeter
- Torque wrench (for electrical terminals)

Pre-Installation Checks

Cabinet Condition

- Inspect the cabinet for any damage or corrosion.
- Do not install if any defects are found.

Installation Location

- The floor must be flat, level, and able to support the full weight.
- Maintain minimum clearances:
 - 800 mm at the front
 - 300 mm at each side
- Ensure there is enough space for airflow and maintenance access.

Cabinet Installation

- Position the cabinet on the prepared surface.
- Check that it is level using a spirit level.
- Secure the cabinet using anchor bolts if required.
- Ensure there is enough space for the door to open fully.
- Check that all ventilation openings are clear and unobstructed.

Electrical Installation

WARNING: All electrical work must comply with local regulations (e.g., BS 7671 IET Wiring Regulations).

Ventilation Fans

1. Connect the fans to a 230V AC supply.
2. Check that they operate correctly once powered.

Inverter Installation

1. Mount the inverter centrally on the mounting plate.
2. Secure it firmly using appropriate fixings.

Thermal Sensors

- Factory setting: 45°C
- Adjust if required for system operation.

Maintenance and Inspection

Carry out regular checks:

- Look for loose connections, corrosion, or dust build-up.
- Ensure ventilation paths remain clear.
- Confirm that cooling fans are operating correctly.

Final Checks

Before switching on the system:

- Check all fixings are secure.
- Confirm all electrical connections are tight.
- Ensure the installation meets all relevant regulations.
- Restore power and verify correct operation.

