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## Installation Instructions – Floor-Based Metal Electrical Cabinet

*(For inverter and battery system integration)*

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### 1. Safety Precautions

Before installation, read all instructions carefully and observe all safety guidelines.

- **Qualified Personnel Only:** Installation must be carried out by licensed electricians or qualified technicians familiar with electrical systems.
  - **Power Isolation:** Ensure all power sources are isolated before starting work.
  - **Personal Protective Equipment (PPE):** Always wear insulated gloves, safety footwear, and eye protection.
  - **Handling:** Use proper lifting equipment or at least two persons to move the cabinet—batteries and metal enclosures are heavy.
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### 2. Tools and Materials Required

- Screwdrivers and insulated tools
  - Adjustable spanner set
  - Spirit level
  - Drill and wall plugs (if securing cabinet to floor or wall)
  - Cable glands and ferrules
  - Multimeter
  - Torque wrench (for battery and inverter terminals)
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### 3. Pre-Installation Checks

1. **Inspect Cabinet:** Verify there is no visible mechanical damage or corrosion.
  2. **Check Location:**
    - Flat, level floor capable of supporting full load.
    - Minimum clearance: **800 mm in front**, and **300 mm sides** for airflow and maintenance.
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### 4. Cabinet Positioning and Mounting

1. Refer to existing norms and regulations when choosing the installation location. Make sure the location meets all existing requirements for batteries placement and planning.
  2. Place the cabinet on the designated flat surface.
  3. Use a **spirit level** to ensure it is level.
  4. If required, secure the cabinet to the floor using anchor bolts through pre-drilled base holes.
  5. Leave sufficient access to the front for door opening and maintenance.
  6. Make sure ventilation fans are unobstructed.
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### 5. Electrical Installation

**Note:** Follow local electrical regulations (e.g., BS 7671 IET Wiring Regulations in the UK).

#### 5.1 AC Wiring (ventilation fans)

Connect ventilation fans to the 230V grid.

#### 5.2. Position inverter centrally on the mounting plate provided

#### 5.3. The thermal sensors are preset at 45 deg C, they are adjustable.

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### 6. Maintenance and Inspection

- Check for loose connections, corrosion, or dust accumulation.
  - Verify inverter and battery ventilation paths are clear.
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