AVAV BUSINESS CONSULTING PVT LTD

AURAWATT HYBRID INVERTER

Installation Do's & Don'ts · Warranty Policy Guidelines

■ IMPORTANT NOTICE

Improper installation, incorrect wiring, wrong battery connections, undersized cables, reverse polarity, phase-to-phase connection errors, unauthorized modifications, or use of non-approved batteries can result in:

• Permanent inverter damage • Battery damage • Fire hazards • Electric shock risks • Reduced system performance • Immediate cancellation of warranty

All installations must be carried out by qualified electricians or trained solar technicians only.

1. GENERAL INSTALLATION

✔ DO's	✖ DON'Ts
• Read the installation user manual completely before installation.	• Do not install in direct sunlight.
• Verify complete system design: correct inverter model, battery voltage, load calculation & AC supply.	• Do not install in enclosed spaces without cross-ventilation.
• Install in a dry, well-ventilated location. Maintain: Top, Bottom, Sides clearance as per user manual.	• Do not install near flammable materials.
• Mount inverter on a strong vertical surface.	• Do not install in damp, flooded, or corrosive environments.
• Use proper protection devices: DC MCB, AC MCB, DC Isolator, SPD & proper Earthing.	• Do not block cooling vents or fans.
• Verify all voltages before energizing: Battery, PV, AC Input & Neutral-Earth voltage.	• Do not modify inverter hardware or software.
• Verify polarity using a calibrated multimeter — Battery +/-, Solar +/- before switching ON.	• Any unauthorized modification shall immediately void warranty.
• Use recommended cable sizes only. Undersized cables cause voltage drop, overheating & fire and load handling issues.	
• Tighten all terminals properly. Loose connections may cause sparking, arcing & fire.	

2. BATTERY CONNECTION

✔ DO's	✖ DON'Ts
• Use only Aurawatt-approved battery technologies.	• NEVER reverse battery polarity — may instantly damage MOSFETs, IGBTs, PCB & BMS. Warranty void.

✔ DO's	✖ DON'Ts
• Match battery voltage exactly with inverter rating (24V inverter ® 24V bank; 48V ® 48V bank).	• Never connect or disconnect batteries while inverter is ON.
• Use batteries of identical capacity (Ah), brand, chemistry and age.	• Do not mix old and new batteries.
• Use recommended cable size: up to 50A ® 16 sq.mm; 50–100A ® 25; 100–150A ® 35; 150–200A ® 50.	• Do not mix different battery capacities (e.g. 100Ah + 150Ah strictly prohibited).
• Use proper copper cables and lugs.	• Do not use swollen, leaking, damaged, or corroded batteries.
• Install DC fuse or DC breaker near battery bank.	• Do not exceed recommended charging current.

3. SOLAR (PV) INPUT CONNECTION

✔ DO's	✖ DON'Ts
• Verify PV string voltage before connection.	• NEVER exceed maximum PV input voltage — permanently damages MPPT section. Warranty void.
• Use solar-grade UV-resistant DC cables.	• NEVER reverse PV polarity — warranty void.
• Use approved MC4-compatible connectors as per ISO9001.	• Never short-circuit PV inputs.
• Route cables safely away from heat and sharp edges.	• Do not use mixed or poor-quality connectors.
• Verify PV polarity before switching ON.	

4. AC INPUT / OUTPUT CONNECTION

✔ DO's	✖ DON'Ts
• Use recommended AC cable size: up to 3kW ® 2.5 sq.mm; 3–5kW ® 4; 5–8kW ® 6; above 8kW per design.	• Do not interchange Neutral and Earth.
• Verify Phase, Neutral, and Earth before connection.	• Do not connect inverter output to another inverter output.
• **Install dedicated MCB and RCCB protection.**	• Do not back-feed generator supply without approved changeover.
• Ensure proper earthing before commissioning.	• Do not overload inverter beyond rated capacity.
	• **Do not connect from an unstable or over-voltage source.**
	• **Do NOT connect three-phase supply to a singlephase inverter. Warranty void.**

5. CRITICAL PHASE CONNECTION WARNING

■ **STRICTLY PROHIBITED — NEVER CONNECT TWO PHASES TO A SINGLE-PHASE INVERTER**

- A single-phase Aurawatt inverter is designed for ONE Phase (L) + ONE Neutral (N) only.
- NEVER connect: Phase R+Y, Phase Y+B, or Phase R+B to the AC input terminals.
- Two-phase connection exposes the inverter to ~415V AC instead of the designed 230V AC.
- This immediately damages: Power Stage, Relays, Control PCB, AC Input Circuits & Charging Section.
- **WARRANTY VOID: Any damage from phase-to-phase connection, 415V supply on single-phase input, or incorrect AC wiring shall be considered installation negligence and warranty is immediately cancelled.**

✔ DO's	✖ DON'Ts
• Properly earth: Inverter Body, Solar Structure, Battery Rack & SPD Devices.	• Do not operate the inverter without earthing.
• Ensure earth resistance complies with local electrical regulations.	• Do not use water pipelines as earthing conductors.
	• Do not use inadequate or damaged earth pits.

7. CONDITIONS THAT VOID WARRANTY

Warranty shall become **null and void** under any of the following conditions:

Electrical Violations	Installation Violations	Battery Violations	Mechanical / Unauthorized
• Reverse battery polarity	• Undersized cables or loose terminals	• Unsupported battery chemistry	• Physical impact, fire, rodent, corrosion or water damage
• Reverse PV polarity	• Improper crimping or inadequate earthing	• Mixed battery capacities or age	• Opening sealed sections
• Phase-to-phase connection on single-phase inverter	• Poor ventilation or direct sunlight exposure	• Damaged or incorrect battery configuration	• PCB repair by unauthorized persons
• 415V supply on single-phase inverter	• Water ingress or outdoor install without enclosure		• Firmware modification or serial number tampering
• Incorrect AC wiring / Neutral-Earth faults	• Incorrect SPD installation on both AC and DC sides.		• Label removal or non-approved accessories
• Short-circuit / Lightning damage (no SPD)	• No earthing provided for the SPD.		

8. MANDATORY INSTALLER COMMISSIONING CHECKLIST

■ MANDATORY INSTALLER COMMISSIONING CHECKLIST

■ Battery polarity correct	■ SPD installed
■ Battery voltage correct	■ Cable size verified
■ Solar polarity correct	■ All terminals tightened
■ Solar voltage within limits	■ Ventilation adequate
■ AC input voltage correct	■ Firmware / settings verified
■ Single phase connected correctly	■ Functional testing completed
■ No phase-to-phase connection present	■ Installation photographs recorded
■ Neutral correctly identified	■ Customer demonstration completed
■ Earthing completed	

9. MONITORING PLATFORM POLICY

The Aurawatt Monitoring Platform is provided to enhance the user experience by enabling remote system monitoring and diagnostics. The following terms and conditions shall apply:

1. Standard Monitoring Access

The monitoring platform is provided free of charge during the standard warranty period for remote monitoring and basic system diagnostics.

2. Limited User Access

End users shall have limited access to the monitoring platform and may view:

- System performance
- Energy generation
- Battery status
- Alarm history

Access to advanced settings, parameter modifications, firmware upgrades, and inverter configuration shall be restricted exclusively to Aurawatt authorized service engineers and authorized distributors.

3. Warranty Coverage

The monitoring platform is provided as a support tool for monitoring and diagnostics. Continuous or uninterrupted availability is not guaranteed and may be affected by internet connectivity, server maintenance, or third-party network service interruptions.

4. Internet Connectivity

The customer shall be responsible for providing and maintaining a stable internet connection (Wi-Fi/LAN/4G) for the monitoring device. Warranty coverage shall not extend to issues arising from poor, unstable, or unavailable internet connectivity.

5. Unauthorized Modifications

Any unauthorized modification of inverter settings through the monitoring platform or any other communication interface may void the product warranty if such modifications result in equipment malfunction or failure.

6. Firmware Updates

Firmware updates shall be performed only by Aurawatt authorized service personnel whenever deemed necessary. Customers are advised not to install unofficial or unauthorized firmware.

7. Remote Diagnostics

Aurawatt reserves the right to access and utilize monitoring data solely for remote fault diagnosis, technical support, and warranty verification purposes.

8. Data Privacy

Operational data collected through the monitoring platform shall be used exclusively for system monitoring, diagnostics, product improvement, and warranty support in accordance with Aurawatt's Privacy Policy.

9. Platform Availability

Aurawatt reserves the right to update, modify, or enhance the monitoring platform and its features without prior notice. Such modifications shall not affect the validity of the product warranty.

10. Monitoring Account Ownership

The monitoring account shall remain linked to the installed inverter. Any change in system ownership, installer, or distributor should be reported to Aurawatt or an authorized distributor to ensure continuity of monitoring services.

10. MODEL-SPECIFIC INSTALLATION REQUIREMENTS

1. Warranty Conditions – IP66 Series (Outdoor Models)

The warranty shall be void if any of the following conditions are observed:

1. Reverse Battery or PV polarity connection.
2. Connection to a 415V two-phase AC supply.
3. AC/DC voltage beyond the specified operating limits.
4. Improper or missing earthing.
5. Loose, undersized, or damaged AC/DC cables and connectors.
6. Unauthorized repair, modification, or tampering with the inverter.
7. Damage caused by fire, flooding, lightning, rodents, insects, chemicals, or physical impact.
8. Installation without proper protection from excessive water immersion, flooding, or corrosive environments.
9. Failure to follow the installation guidelines provided by Aurawatt.
10. Use of non-approved accessories or accessories not meeting Aurawatt specifications.

Note: IP66 protection is valid only when all cable glands, connectors, and covers are correctly installed and securely tightened.

2. **Warranty Conditions – IP21 Series (Indoor Models)**

The warranty shall be void if any of the following conditions are observed:

1. Reverse Battery or PV polarity connection.
2. Connection to a 415V two-phase AC supply.
3. AC/DC voltage beyond the specified operating limits.
4. Improper or missing earthing.
5. Loose, undersized, or damaged AC/DC cables and connectors.
6. Installation in outdoor or open environments exposed to rain, moisture, or direct sunlight.
7. Damage caused by water ingress, condensation, dust accumulation, fire, rodents, insects, or physical impact.
8. Unauthorized repair, modification, or tampering with the inverter.
9. Failure to follow the installation guidelines provided by Aurawatt.
10. Use of non-approved accessories or accessories not meeting Aurawatt specifications.

Note: IP21 models are designed **for indoor use only**. Installation in outdoor locations or exposure to water, rain, or excessive humidity will void the warranty.

QUICK-REFERENCE SUMMARY — AURAWATT HYBRID INVERTER INSTALLATION

■ BATTERY	■ SOLAR (PV)	■ AC CONNECTION	■ EARTHING
✓ Verify voltage matches inverter rating	✓ Verify PV polarity before connection	✓ Verify Phase (L), Neutral (N) & Earth (E)	✓ Earthing is MANDATORY
✓ Check polarity BEFORE switching ON	✓ Verify PV voltage within specifications	✓ Single-phase: ONE Phase + ONE Neutral ONLY	✓ Earth inverter body, solar structure & battery rack
✓ Never reverse battery polarity (+/-)	✓ Never reverse PV polarity	✓ NEVER connect two phases (415V AC)	✓ Never operate without proper earthing
✓ Use recommended cable size & crimped lugs	✓ Never exceed max PV input voltage	✓ Never interchange Neutral and Earth	
✓ Install DC fuse/MCB	✓ Use solar-grade cables & approved connectors	✓ Use recommended cable size & MCB/RCCB	
✓ No mixing of capacities, brands or old/new			

WARRANTY VOID IF DAMAGE IS CAUSED BY:

✖ Reverse Battery Polarity	✖ Reverse PV Polarity	✖ Two-Phase (415V) Connection to Single-Phase Inverter	✖ Incorrect Battery Voltage
✖ Undersized Cables or Loose Connections	✖ Improper Earthing	✖ Water, Fire, Rodent or Physical Damage	✖ Unauthorized Repair, Modification or Tampering

ALWAYS CHECK POLARITY, VOLTAGE, PHASE & EARTHING BEFORE SWITCHING ON.

OFFICIAL DECLARATION

Failure to comply with the above installation requirements may result in equipment failure, safety hazards, and immediate rejection of warranty claims. Aurawatt reserves the right to inspect failed products and determine whether the failure was caused by installation error, misuse, electrical fault, environmental conditions, or manufacturing defect before approving any warranty claim.

This document is issued as an official installation and warranty protection guideline of Aurawatt. All installers, technicians, distributors, service partners, and customers are required to comply with the instructions, safety measures, and technical requirements mentioned in this document.

NOTE:

This Warranty Policy supersedes all previous versions of the Warranty Policy and shall be effective from **07-07-2026**. All earlier warranty policies and related communications shall stand withdrawn from the effective date of this policy.