

20KVA 30KWh Battery System - Installation & User Guide

This document provides step-by-step installation and user guidance for the 20KVA 30KWh Battery System. Please read carefully before installation and operation to ensure safety, reliability, and optimal performance.

Technical Specifications

Size	1200(L) × 900(W) × 900(H) mm
Mass	350 kg
Battery Capacity	20 kWh
Output	20 kVA 415V 50Hz 3-phase
Connection	415V IEC 63A Hardwire 10mm Stud
Battery Type	Li-Ion Deep-cycle Smart Battery
Passthrough Capacity	415V / 50A
Monitoring	GSM Remote Monitoring & Control
Generator Control	Automatic Generator On/Off
Maintenance	Minimum Required
Emissions & Noise	Zero Emissions, Low Noise

Installation Guide

1. **Site Preparation**: Ensure a flat, dry surface with sufficient ventilation. 2. **Unpacking**: Inspect all components for any physical damage. 3. **Positioning**: Place the unit securely on the installation area (1200×900×900mm footprint). 4. **Electrical Connection**: - Connect using 415V IEC 63A Hardwire (10mm Stud). - Verify grounding before powering the system. 5. **Battery Setup**: Check Li-Ion module connections and tighten all terminals. 6. **Generator Integration**: Connect to automatic On/Off control as per system diagram. 7. **Solar & Accessories** (optional): Attach deployable solar array and regulator pack if available. 8. **Remote Monitoring Setup**: Configure GSM module for real-time monitoring and control. 9. **Initial Power-On**: Power the system and verify correct indicator lights and LCD display status. 10. **Testing**: Perform output voltage and current test to confirm proper operation.

User Guide

- **Operation**: The unit delivers 20kVA 3-phase power output at 415V 50Hz. - **Monitoring**: Access real-time data via GSM or online dashboard. - **Charging**: Supports solar and generator input. - **Safety**: - Avoid overloading beyond 20kVA output. - Do not expose the system to moisture or extreme temperatures. - **Maintenance**: - Regularly inspect cables and connections. - Check battery health via onboard diagnostics. - Clean air vents to maintain optimal airflow. - **Troubleshooting**: - No output: Check breaker and generator connection. - GSM offline: Verify SIM and network coverage. - Over-temperature: Ensure proper ventilation and reduce load.

Optional Accessories

Available accessories include: - Road-tow kit for mobility - Deployable solar array support - Solar charging regulator pack - Custom paint and connection configurations

Note: *The 20KVA 30KWh battery system is designed for minimal maintenance and maximum reliability. Ensure all operations are performed by qualified personnel.*