

20KVA 30KWh Battery System - User Guide

This User Guide provides operational instructions, maintenance tips, and troubleshooting assistance for the 20KVA 30KWh Battery System.

Technical Overview

Size	1200(L) x 900(W) x 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

Operation Instructions

- **Power Output**: 20kVA 3-phase 415V 50Hz.
- **Start-Up**:
 1. Confirm all connections are secured.
 2. Switch ON main power breaker.
 3. Monitor the LCD and GSM dashboard for status updates.
- **Normal Operation**:
 - Use via control panel or remote GSM interface.
 - Monitor voltage, current, and temperature.
 - Avoid exceeding rated output (20kVA).

Maintenance

- Check cables and terminals monthly for wear or corrosion.
- Inspect air vents and clean dust or debris.
- Run a system diagnostic every 3 months using GSM platform.
- Replace batteries only with approved Li-Ion modules.

Troubleshooting

- **No Output**: Check circuit breaker and generator link.
- **GSM Offline**: Verify SIM card and network signal.
- **Over-temperature**: Improve ventilation and reduce system load.
- **Low Battery Performance**: Inspect individual cell voltages and recharge fully.

Optional Accessories

- Road-tow kit for transportation
- Deployable solar array system
- Solar charging regulator pack
- Custom paint and connection options

End of User Guide

Ensure proper use and periodic inspection to maintain system longevity and performance.