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USER MANUAL

125 kW / 241 kWh

Operation and monitoring guide

125 kW	261 kWh*	LFP
RATED INVERTER POWER	ENERGY STATED IN THE MODEL DESIGNATION	AIR COOLING

READ BEFORE USE

This guide is based on the supplied technical information. It describes published specifications and general operating precautions. It does not provide a validated installation, commissioning or switching procedure. Obtain the instructions for the delivered unit before connecting or energising it.

The supplied brochure describes a 125 kW three-phase PV and storage cabinet with five LFP battery modules and a battery voltage range of 745-933 V. This edition specifies air cooling as instructed. Detailed operating, protection and wiring documentation is not included in the brochure.



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SAFE OPERATION AND MONITORING

1. Personnel and access

Electrical switching and internal work are restricted to qualified, authorised personnel. Keep cabinet doors closed, access routes clear and ventilation openings unobstructed. Do not bypass protective devices. The precautions below are general guidance, not a manufacturer-specific switching procedure.

2. Before first use

The site operator must have the approved wiring drawings, commissioning acceptance, identified isolation points, start/stop and emergency procedures, interface instructions, alarm list and approved protection settings. Backup loads and grid/island operating arrangements must be validated for the installed equipment.

3. Starting and stopping

Use only the approved procedure for the installed unit. The supplied documents do not specify the breaker sequence, button names or waiting time before intervention. A control stop does not prove absence of voltage: PV, grid, battery and auxiliary circuits may remain energised.

4. Routine observation

- Inspect the exterior for damage, water ingress or blocked airflow, without opening the cabinet.
- Read the active mode, operating status and any alarms on the available supervision interface.
- Record battery SOC, voltage, current and temperatures; compare them with the approved operating limits.
- Report cooling faults, abnormal readings or lost communications to the site operator. Record the time and exact alarm message.

> The 261 kWh brochure does not specify the recommended SOC range, battery temperature limits or protection thresholds. Obtain these values for the delivered unit; do not adopt the 241 kWh model's settings.

> Smoke, gas release or fire alarm: move away, restrict access and alert emergency services in accordance with the site emergency plan. Do not open the cabinet or restart it without technical clearance.

Key terms

SOC: state of charge, indicating the battery's remaining charge as a percentage. BMS: battery management system, used to monitor battery conditions and manage protection. MPPT: maximum power point tracking for the photovoltaic input.

TECHNICAL REFERENCE

Battery and cabinet

Model designation	125 kW / 261 kWh*
Battery chemistry	Lithium iron phosphate (LFP)
Battery modules	5
Published module rating	166 V / 314 Ah / 52.5 kWh*
Battery voltage range	745-933 V DC
Cooling method	Air cooling
Ingress protection	IP54
Product size (source order)	1532 × 1388 × 2155 mm
Net weight in technical document	2600 kg

AC input / output

Rated AC input / output active power	125 kW
Rated AC output current	151.6 A*
Maximum AC current	189.9 A / 180.4 A*
AC voltage / frequency	220/380 V; 230/400 V · 50/60 Hz

Photovoltaic input

Maximum PV module power	250 kW
Maximum PV input voltage	1000 V
MPPT voltage range	150-950 V
MPPT trackers / input strings	10 / 20

Rated energy is not guaranteed usable energy. Runtime depends on SOC, load, losses, auxiliary consumption, temperature and ageing. Inverter ratings do not establish the battery's continuous output capability.

Technical basis: Commercial Type PV & ESS Storage System 261 kWh, two-page brochure, parameter table on p. 2; air-cooling correction supplied separately.

FAULTS AND MAINTENANCE

OBSERVATION	GENERAL RESPONSE
Battery / inverter alarm	Record the exact message, time and readings. Apply the site fault procedure through authorised personnel. Do not force operation or repeatedly reset the fault.
Communication loss	Treat displayed data as unreliable. Notify the operator; do not assume the equipment is de-energised.
Cooling fault / condensation	Report the condition and apply the approved site procedure. Do not open the cabinet to cool it.
Fire indication	Smoke, gas release or fire alarm: move away, restrict access and alert emergency services in accordance with the site emergency plan. Do not open the cabinet or restart it without technical clearance.

Maintenance and extended shutdown

User checks are limited to external inspection and supervision readings. Electrical work, internal cleaning, cooling-system service and fire-system inspection require qualified personnel and the applicable isolation procedures. Obtain the maintenance intervals, isolation waiting time, storage SOC and recharge interval from the supplier before extended shutdown. These values are not specified in the supplied documents.

Data requiring confirmation

The supplied 261 kWh brochure contains no installation wiring diagram, component drawings, protection settings or detailed fire-system configuration. Obtain the model-specific documentation; the 241 kWh diagrams do not apply to this unit by default.

- Energy: 261 kWh is the model designation. The capacity row contains “261Wh”, while five modules at 52.5 kWh total 262.5 kWh. Final rated energy and module ratings require confirmation.
- AC current: the brochure labels 151.6 A as rated output and 189.9 / 180.4 A as maximum current. The 151.6 A rating needs confirmation for the stated 125 kW / 380-400 V configuration. Do not size protection from this value alone.
- Cooling: this edition specifies air cooling following the supplied correction; the original brochure states liquid cooling. The 261 kWh shipping dimensions, gross weight and detailed operating limits have not been supplied.

Operating record

DATE / OPERATOR	STATUS / ALARM / READINGS	ACTION / FOLLOW-UP

Technical basis: Commercial Type PV & ESS Storage System 261 kWh, two-page brochure, parameter table on p. 2; air-cooling correction supplied separately.