

PowerFac-5M

Technical procurement brief

5.016 MWh liquid-cooled battery container

PowerFac-5M is a liquid-cooled battery container with 5,016 kWh nominal battery energy. The supplied brochure lists twelve battery clusters of 418 kWh each, a nominal battery voltage of 1331.2 V and an operating range of 1164.8-1497.6 V. These are battery-side values; a complete AC system requires a separately defined PCS and site interface.

The brochure identifies renewable generation, grid-side storage and commercial or industrial energy management as application examples. These are starting points for engineering review. The proposed dispatch objective, usable energy, power, controls and connection requirements must be established for the site.

This brief summarizes the supplied brochure. The source does not show a revision or issue date; confirm the applicable configuration and controlled technical documents with the quotation.

Published specifications and their boundaries

Parameter	Brochure value	Procurement interpretation
Nominal battery energy	5,016 kWh / 5.016 MWh	Battery-side nameplate energy; it is not guaranteed usable energy at an AC connection.
Nominal DC voltage	1331.2 V	A battery-side value, not the grid connection voltage.
DC operating voltage	1164.8-1497.6 V	Match the full operating range to the proposed PCS and control limits.
Battery cluster energy	418 kWh	Brochure value for each of the twelve clusters.
Battery cluster count	12	12 × 418 kWh = 5,016 kWh nominal energy.
Charge/discharge rate	≤0.5P	Original brochure notation. Its power basis and conditions are not defined in the supplied document; request clarification before deriving kW or duration.
Cooling	Liquid cooling	Define cooling and other auxiliary consumption in the project energy balance.
Enclosure rating	IP55 container; IP65 battery packs	The brochure excludes the liquid-cooling unit compartment from the container rating.
Operating temperature	-20 to 50 °C	The brochure does not provide a temperature-dependent output curve; confirm available power across the proposed site conditions.
Dimensions, L × W × H	6058 × 2438 × 2896 mm	Container dimensions only; access and service clearances require a site layout.
Listed mass	43 t	Confirm the actual shipping and installation configuration before transport, lifting and foundation design.

PowerFac-5M | Procurement planning

Questions to resolve before comparing proposals

What power and duration does this container provide? The energy rating alone does not answer this. Ask for the permitted battery power, the meaning of $\leq 0.5P$, the selected PCS rating, the usable operating window and the performance at the agreed measurement point. Do not automatically substitute 0.5C for the brochure's notation or infer a guaranteed two-hour AC system.

How much energy reaches the site? Require nominal battery energy, usable battery energy and usable energy at the AC connection to be identified separately where applicable. Specify SOC limits, charge/discharge rate, temperature, auxiliary loads and the beginning- or end-of-life basis. Require a common test method and measurement point when comparing alternatives.

What equipment is included? Treat the battery container and the AC balance of system as separate procurement scopes. The proposal should identify the included battery, BMS, thermal management and protection configuration and explicitly allocate PCS, transformer, switchgear, EMS/SCADA, metering, communications, fire-system interfaces, cabling, civil works, installation and commissioning. A container energy rating does not define a turnkey project.

What operating and service responsibilities are covered? Define dispatch modes, alarms, isolation, communications, service access, maintenance and acceptance requirements for the quoted configuration. Request model-specific warranty and delivery terms; this brief does not establish a fixed service commitment, life guarantee, lead time or financial return.

Project information to send with an RFQ

- Installation country, grid connection requirements, ambient range, altitude and site access.
- Target power and duration, operating objective, and interval generation/load data.
- Proposed PCS and AC architecture, or the scope for developing them.
- Required equipment/services, quantity, schedule, control interfaces and acceptance criteria.

[Review the product page](#) · [Request a PowerFac-5M technical proposal](#)

Source and document status

Based on the supplied PowerFac-5M product brochure, pages 1-2. The source has no printed revision or issue date. The preparation date above is an editorial date, not a product revision or engineering approval. This procurement summary does not replace a controlled datasheet, project design, quotation or contract.