

SYSTEM PACKAGE DATA SHEET

Package 1: SAJ H2 + B2(HV1)

SAJ 10 kW Hybrid Inverter + 50 kWh B2(HV1) - preliminary battery package reference for Australian residential or light-commercial applications.



Package configuration

10 x 5.0 kWh modules arranged as two 25 kWh stacks (5 modules per stack), with one control module per stack.

Hybrid inverter: H2-10K-T2
Battery system: BU2-5.0-HV1 with BC2-HV1 controls

Perfect for: Large homes seeking high storage capacity, three-phase backup capability and smart energy management.

50.00 kWh	48.00 kWh	10.0 kW	Three-phase
Nominal storage	Usable / reference	Inverter rating	Grid phase

Package configuration

Component	Selected model / quantity
Battery storage	10 x 5.0 kWh modules arranged as two 25 kWh stacks (5 modules per stack), with one control module per stack.
Hybrid inverter	1 x H2-10K-T2, 10.0 kW three-phase
Monitoring	Manufacturer app / portal, subject to communications hardware and internet connection
System type	Hybrid battery energy-storage package; PV array is not included in this package sheet
Final scope	Backup circuits, metering, gateway, protection, cable route and switchboard works are site dependent

Capacity reconciliation and important correction

IMPORTANT TECHNICAL NOTE
The SAJ B2 datasheet supports a maximum of 5 battery modules (25 kWh nominal) per stack. A 50 kWh package therefore requires two compliant 25 kWh stacks and the final parallel arrangement must be confirmed against the latest SAJ compatibility documentation.
Final compatibility, approved-product status, firmware, battery quantity, protection, installation clearances and backup design must be confirmed against current manufacturer instructions before quotation and procurement.

1. BATTERY STORAGE SYSTEM

BU2-5.0-HV1 with BC2-HV1 controls

Technical values below are consolidated from the referenced manufacturer datasheet and package capacity calculations.

Battery parameter	Package / reference value
Chemistry	LiFePO4 (LFP)
Module	BU2-5.0-HV1, 5.0 kWh nominal / 4.8 kWh usable
Quantity and architecture	10 modules total; two stacks of 5 modules, each with BC2-HV1 control module
Package energy	50.0 kWh nominal / 48.0 kWh usable
Per-stack nominal voltage	512 V
Per-stack operating voltage	448-576 V
Maximum charge / discharge current	30 A per stack (subject to system configuration and inverter limits)
Depth of discharge	96%
Approx. weight	263.5 kg per complete 25 kWh stack; approx. 527 kg for two stacks
Approx. dimensions per complete stack	About 1525 x 626 x 365 mm including battery and control sections
Ingress protection	IP65
Operating temperature	Charge 0 to 50 C; discharge -10 to 50 C
Communication	CAN
Standards	IEC 62619 (cell and pack), EN 62477-1, EN 61000-6 series, UN38.3

Capacity and architecture review

Item	Package interpretation
Nominal storage	50.00 kWh
Usable / reference storage	48.00 kWh
Battery arrangement	10 x 5.0 kWh modules arranged as two 25 kWh stacks (5 modules per stack), with one control module per stack.
System limitation	Maximum AC output and charging/discharging are limited by the selected inverter, BMS, settings and operating conditions.

Battery installation considerations

- Confirm the exact battery model suffix, matching master/control module and compatible firmware before ordering.
- Maintain manufacturer clearances, floor or wall loading limits, restricted-location requirements and suitable mechanical protection.
- Provide compliant isolation, overcurrent protection, earthing, communications and emergency shutdown labelling.
- Battery installation location, combustible-surface treatment, bollards and smoke-alarm requirements are subject to site conditions and current Australian Standards.
- Register the product and retain serial numbers, commissioning data, photos and customer handover documentation.

Full manufacturer source links are provided on the final page of this package data sheet.

2. HYBRID INVERTER AND PACKAGE COMPATIBILITY

H2-10K-T2

Reference inverter data and package-level compatibility review.

Inverter parameter	H2-10K-T2 reference value
Type / phase	Three-phase hybrid inverter
Rated AC power	10,000 W
Maximum apparent power	11,000 VA
Battery voltage range	180-600 V
Max. battery charge / discharge current	30 A / 30 A
Backup output	10,000 VA continuous; 16,500 VA peak for 60 seconds
UPS transfer time	<= 10 ms
Maximum efficiency	98.0%
Ingress protection	IP65
Dimensions / weight	433 x 549 x 207 mm / 25 kg
Monitoring	LED and app; Wi-Fi / Ethernet / 4G options
Australian grid standard	AS 4777.2 listed in manufacturer reference

Compatibility review

Compatibility check	Assessment
Battery voltage	Each 25 kWh stack is 512 V nominal and within the inverter battery range of 180-600 V.
Energy architecture	Two separate 25 kWh stacks are required; final parallel control and approved configuration must be verified.
Power limit	Battery capacity does not increase the inverter output beyond 10 kW. Actual charge/discharge power is inverter- and BMS-limited.
Backup	Final protected loads, phase balance, bypass arrangement and switchboard capacity are site dependent.

Indicative installation and handover scope

Function	Expected scope	Site-dependent confirmation
Battery mounting	Approved support, clearances and mechanical protection	Wall/floor construction, restricted locations, weather exposure and access
AC and switchboard works	Dedicated protection, isolation, earthing and compliant connection	Available capacity, mains size, phase arrangement and switchboard upgrade
Backup arrangement	Essential-load or whole-home backup configuration	Load assessment, phase balance, neutral arrangement, bypass and generator interaction
Metering and controls	Compatible meter/CT/gateway and energy-management setup	Cable route, communications and network/export requirements
Commissioning	Firmware, operating mode, protection settings, app setup and functional tests	Customer tariff, export limit, reserve SOC and backup priorities
Handover	Serials, shutdown procedure, monitoring access and warranty registration	Final manufacturer and regulatory documentation

Inverter source: SAJ H2 5-10 kW Three-Phase Hybrid Inverter datasheet, AU V1.1 (2026-06-06).
[Open manufacturer inverter document](#)

3. SOURCES, WARRANTY AND COMPLIANCE NOTES

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This package sheet consolidates selected technical information for preliminary design and customer presentation. The latest manufacturer documentation remains authoritative.

Reference documents

Component	Reference document	Official / reference link
Battery	SAJ B2 5.0 kWh High Voltage Battery datasheet, AU V1.1 (2026-06-09).	Open battery source
Hybrid inverter	SAJ H2 5-10 kW Three-Phase Hybrid Inverter datasheet, AU V1.1 (2026-06-06).	Open inverter source

Final pre-quotation and procurement checklist

Check	Required confirmation
Exact product identity	Full model suffix, master/slave or control-module quantities, current firmware and Australian approved-product listing.
System compatibility	Battery voltage, charge/discharge current, capacity limits, parallel architecture, communication protocol and manufacturer compatibility statement.
Site and network	Service phase, mains capacity, switchboard condition, backup load schedule, export restrictions and distributor requirements.
Safety and location	Clearances, restricted locations, fire separation, mechanical protection, smoke alarms, ventilation and environmental rating.
Protection and cabling	Battery/AC isolation, overcurrent protection, fault current, cable sizing, voltage drop, earthing, labels and shutdown procedure.
Warranty and registration	Current Australian warranty terms, commissioning records, serial numbers, internet registration and maintenance requirements.

Warranty wording

Warranty duration and usable-energy retention depend on the exact product model, registration, operating conditions, installation method and manufacturer policy applying in Australia at the date of supply. Warranty terms must be confirmed before they are included in a customer quotation.

Technical and commercial disclaimer

This consolidated package sheet is a preliminary technical and marketing-support document. It is not a construction drawing, final battery compatibility approval, network approval or substitute for current installation manuals. Final equipment models, battery quantities, voltage architecture, protection, cable sizing, backup loads, switchboard modifications, clearances, warranty terms and approved-product status must be confirmed following site inspection and before procurement. Installation must comply with applicable Australian Standards, distributor requirements, manufacturer instructions and local regulations. Specifications can change without notice.

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