

SYSTEM PACKAGE DATA SHEET

Package 4: GoodWe ESA + 8.32 kWh Modules

GoodWe ESA 15 kW + 48 kWh Usable Battery - preliminary battery package reference for Australian residential or light-commercial applications.



Package configuration

6 x 8.32 kWh GoodWe battery modules providing 49.92 kWh nominal and 48.0 kWh usable capacity.

Hybrid inverter: GW15K-ETA-G20
Battery system: 6 x GW8.3-BAT-D-G20 (or confirmed AU equivalent)

Perfect for: High-usage homes and small commercial sites seeking an integrated three-phase energy-storage solution.

49.92 kWh	48.00 kWh	15.0 kW	Three-phase
Nominal storage	Usable / reference	Inverter rating	Grid phase

Package configuration

Component	Selected model / quantity
Battery storage	6 x 8.32 kWh GoodWe battery modules providing 49.92 kWh nominal and 48.0 kWh usable capacity.
Hybrid inverter	1 x GW15K-ETA-G20, 15.0 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

Six 8.32 kWh modules equal 49.92 kWh nominal and 48.0 kWh usable. The inverter is 15 kW, not 48 kW.

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

6 x GW8.3-BAT-D-G20 (or confirmed AU equivalent)

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

Battery parameter	6-module package reference value
Chemistry	LFP (LiFePO ₄)
Module model	GW8.3-BAT-D-G20 or current approved Australian equivalent
Module energy	8.32 kWh rated / 8.0 kWh usable
Quantity	6 modules
Package energy	49.92 kWh nominal / 48.0 kWh usable
Three-phase operating voltage range	700-950 V
Module max. input / output power	8.0 kW / 8.0 kW reference; total system governed by inverter and controls
Peak output per module reference	12 kW for 10 seconds
Module weight	79 kg each; approx. 474 kg total battery-module weight
Module dimensions	800 x 326 x 270 mm each
Ingress protection	IP66
Charging / discharging temperature	-18 to +55 C / -20 to +55 C for G20 reference
Communication	CAN
Cycle-life reference	>=8000 cycles under manufacturer laboratory conditions
Standards	IEC 62619, IEC 60730, EN 62477, IEC 63056, IEC 62040, CE, CEC, VDE2510, UN38.3

Capacity and architecture review

Item	Package interpretation
Nominal storage	49.92 kWh
Usable / reference storage	48.00 kWh
Battery arrangement	6 x 8.32 kWh GoodWe battery modules providing 49.92 kWh nominal and 48.0 kWh usable capacity.
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

GW15K-ETA-G20

Reference inverter data and package-level compatibility review.

Inverter parameter	GW15K-ETA-G20 reference value
Type / phase	Three-phase integrated hybrid power module
Rated AC power	15 kW
Battery voltage range	700-950 V
Max. continuous battery charge current	20.1 A
Max. continuous battery discharge current	22.1 A
Max. charge / discharge power	15.0 kW / 16.5 kW
Maximum PV input	30 kW
Backup output	15 kVA rated; 16.5 kVA continuous max off-grid and 30 kVA for 10 seconds
Backup switching	<4 ms feature stated by manufacturer
Bypass capability	63 A internal passthrough reference
Ingress protection	IP66
Dimensions / weight	800 x 340 x 270 mm / 34 kg
Monitoring	LED, WLAN and app; RS485, Wi-Fi/LAN/Bluetooth; optional 4G

Compatibility review

Compatibility check	Assessment
Capacity calculation	6 x 8.32 kWh = 49.92 kWh nominal; 6 x 8.0 kWh = 48.0 kWh usable.
Voltage architecture	The ESA three-phase battery system is designed around the 700-950 V operating range.
Power limit	The package inverter is 15 kW. Battery capacity does not make it a 48 kW inverter.
Model confirmation	Confirm the exact G20/G21 battery variant, heating option, approved listing and supplied system enclosure before procurement.

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: GoodWe ESA Series 5-30 kW / 5-108 kWh three-phase datasheet, V2.1 (2026-06-16).
[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	GoodWe ESA Series 5-30 kW / 5-108 kWh three-phase datasheet, V2.1 (2026-06-16).	Open battery source
Hybrid inverter	GoodWe ESA Series 5-30 kW / 5-108 kWh three-phase datasheet, V2.1 (2026-06-16).	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.

HI-PRO ELECTRICAL PTY LTD
Solar | Battery | Electrical | HVAC
02 8000 0444 | 0450 300 300 | info@hiproelectrical.com.au
NSW, Australia