

COMMERCIAL BATTERY PACKAGE DATA SHEET

Package 4: Sungrow PowerStack Package

110.0 kW commercial energy-storage package with 225.00 kWh nominal battery capacity.

PACKAGE 4



50kW Battery System

- ✓ 1 x 50kW Three Phase Inverter
- ✓ 100kWh Battery Storage
- ✓ Grid-connected commercial system
- ✓ Online monitoring via app
- ✓ CEC approved installation
- ✓ Peak shaving & demand management
- ✓ Optional backup-ready design

SUNGROW

Commercial Battery

PERFECT FOR:

Large commercial and industrial sites with high energy demand.

Package configuration

Inverter / PCS:

ST225kWh-110kW-2h-AU

Battery:

PowerStack - 225 kWh

Quantity:

1 x integrated Sungrow PowerStack liquid-cooled C&I; energy-storage system

Monitoring:

iSolarCloud app and web portal

Illustration note:

Product image is a package illustration. Final supplied equipment must match the quoted model schedule.

110.0 kW	225.00 kWh	Model dependent	2.05 h
Power rating	Nominal battery energy	Usable energy	Nominal energy / power ratio

Verified package basis

Item	Verified / quoted package information
Inverter / PCS	ST225kWh-110kW-2h-AU
Battery storage	PowerStack - 225 kWh
Battery quantity	1 x integrated Sungrow PowerStack liquid-cooled C&I; energy-storage system
Battery chemistry	Integrated liquid-cooled C&I; battery system
Ingress protection	IP55
Monitoring	iSolarCloud app and web portal
System type	Three-phase commercial battery energy-storage system; final AC-coupled or DC-coupled architecture is model and site dependent

This corrected package replaces the unsupported 50 kW / 100 kWh Sungrow combination used previously.

1. VERIFIED PRODUCT INFORMATION

PowerStack - 225 kWh

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Verified characteristic	Reference value
Nominal power	110 kW
Energy capacity	225 kWh product designation
AC voltage	400 V nominal; 340-440 V operating range
PCS efficiency	Maximum 98.5%
Protection	IP55
Cooling	Liquid-cooled thermal management
Safety	Cell-health monitoring and three-level overcurrent / fire-safety o

Engineering and sizing checks

Check	Requirement
Load profile	Review 15- or 30-minute interval data, maximum demand, operating hours and tariff structure.
Charge opportunity	Confirm available solar surplus and permitted grid charging.
Usable energy	Apply manufacturer usable-capacity limits, reserve state of charge and degradation allowances.
Power capability	Confirm continuous and short-duration battery/PCS charge and discharge limits.
Backup duration	Size against the essential-load profile, not against inverter nameplate alone.
Thermal and location	Confirm ventilation/cooling, ambient temperature, clearance, fire separation, access and impact protection.

Official source basis
Sungrow Australia ST225kWh-110kW-2h-AU official product page and datasheet listing.
<https://en.sungrowpower.com/productDetail/5912/energy-storage-system-st225kwh-110kw-2h-au>

2. INSTALLATION, CONTROL AND HANDOVER

ST225kWh-110kW-2h-AU

The final installation design must be completed using the exact Australian model manuals, approved-product listings and network requirements.

Function	Associated equipment	Site dependency confirmation
Battery and PCS installation	Equipment mounting, electrical interconnection and manufacturer commissioning	Location, access, plinth/slab, ventilation/cooling, weather exposure and bollards
Switchboard connection	Dedicated protection and connection to the nominated switchboard	Service capacity, fault level, phase balance, protection coordination and cable route
Metering / EMS	Compatible meter, CTs, gateway and energy-management settings	CT location, main incomer access, communications and tariff logic
Backup / islanding	Only where supported and separately designed	STS/ATS, essential-load board, neutral/earthing arrangement, black start and generator interaction
Network approval	Application and export/import control where required	DNSP requirements, connection limits and commissioning settings
Online monitoring	Account setup, communications and customer handover	Internet availability, SIM/LAN/Wi-Fi hardware and user permissions
Documentation	Serials, settings, test results, labels, shutdown procedure and warranties	Final as-built schedule and incentive documentation

Commercial operating objectives

Objective	Typical control strategy
Solar self-consumption	Charge from surplus solar and discharge when the site would otherwise import from the grid.
Peak shaving	Discharge when site demand approaches an agreed import threshold.
Time-of-use shifting	Charge during lower-cost periods and discharge during higher-cost tariff periods, where permitted.
Demand-charge management	Use interval data and EMS controls to reduce short-duration demand peaks.
Backup supply	Reserve energy for essential loads where the selected equipment supports backup operation.

Important: A solar-only string inverter cannot be assumed to accept a battery. A compatible hybrid inverter, battery PCS, gateway, meter/CT, EMS and backup equipment may be required.

3. WARRANTY, COMPLIANCE AND FINAL CHECKLIST

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Check	Required confirmation before quotation / procurement
Exact model identity	Confirm full inverter/PCS, battery, controller, gateway, STS/ATS and meter model numbers.
Compatibility	Obtain the current manufacturer compatibility declaration for the exact inverter and battery combination.
Australian approval	Confirm relevant current approved-product listings, certification and DNSP acceptance.
Electrical design	Complete voltage, current, fault-level, cable, protection, earthing and neutral calculations.
Battery location	Confirm applicable AS/NZS 5139 requirements, restricted locations, clearances, impact protection and fire safety.
Network connection	Confirm import/export limits, protection settings, metering and DNSP approval requirements.
Warranty	Confirm duration, cycle/throughput limits, usable-capacity terms, state-of-health conditions and registration.
Customer handover	Provide manuals, shutdown procedure, monitoring access, test results, serial numbers and as-built documentation.

Warranty wording

Do not advertise a battery or inverter warranty period unless it has been checked against the exact Australian model, sales channel, registration conditions, cycle/throughput limits and manufacturer warranty policy current at the date of supply.

Technical and commercial disclaimer

This datasheet is a preliminary package and marketing-support document prepared from the manufacturer information identified above. It is not a construction drawing, final energy assessment, network approval or substitute for current manufacturer manuals. Final equipment identity, compatibility, usable capacity, charge/discharge limits, cooling, protection, cable sizing, location, backup design, export/import limits, warranty terms, approved-product status and incentive eligibility must be confirmed after site inspection and before procurement. Installation must comply with applicable Australian Standards, DNSP requirements, manufacturer instructions and local regulations. Specifications can change without notice.

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