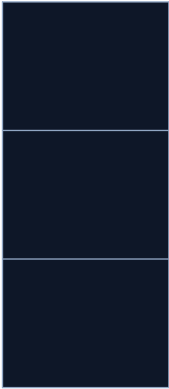


SYSTEM PACKAGE DATA SHEET

Package 3: LONGi Solar + Sigenergy

40.60 kWp commercial solar system - solar-only, grid-connected package designed for Australian commercial applications.





COMMERCIAL
INVERTER

Package configuration

70 x 580 W LONGi Solar modules
1 x 30.0 kW Sigenergy three-phase inverter

Perfect for: Commercial facilities wanting advanced monitoring, smart energy management and future-ready technology.

Reference models:
580 W commercial module
Sigen C&I; 30 kW reference

40.60 kWp	30.0 kW	70	1.35
DC solar array	Inverter AC rating	580 W modules	DC/AC ratio

Package configuration

Component	Selected model / quantity
Solar modules	70 x LONGi Solar 580 W commercial module, 580 W each
Inverter	1 x Sigen C&I; 30 kW reference, 30.0 kW three-phase inverter
Monitoring	mySigen app / Sigenergy monitoring platform
System type	Solar-only, grid-connected; no battery storage included
Indicative module area	Approx. 168.0 m2 before roof setbacks, access paths and module gaps

Capacity reconciliation and design basis

70 modules x 580 W = 40,600 W (40.60 kWp). The selected inverter is rated at 30.0 kW, producing a DC/AC ratio of 1.35. Final string allocation, voltage, current, cable sizing, protection, export limits and network approval must be confirmed after site inspection and engineering checks.

Final string allocation, cable sizing, protection, export limits and network approval must be confirmed after site inspection and engineering checks.

1. SOLAR PV ARRAY AND MODULE DATA

LONGi Solar 580 W commercial module

High-power commercial module.

40.60 kWp	70	580 W	168.0 m²
Array rating at STC	Module quantity	Module rating	Approx. module area

PV module parameter	Reference value
Rated maximum power (P _{max})	580 W at STC
Technology	Commercial high-efficiency solar module
Module type	Exact mono / bifacial / glass configuration subject to selected model
Dimensions / weight	Confirm from exact manufacturer datasheet
Maximum system voltage	Confirm from exact manufacturer datasheet
Series fuse rating	Confirm from exact manufacturer datasheet
Product and performance warranty	Use exact Australian warranty applying at date of supply

Array calculations

Test	Calculation / requirement	Result
Nameplate array	70 x 580 W	40,600 W
Approximate module area	70 x indicative module footprint	168.0 m ² before gaps
Indicative string approach	Divide strings across available MPPTs after cold/hot voltage and current checks	Final engineering required
Roof allowance	Add setbacks, walkways, mounting clearances and obstruction zones	Site dependent

Module design notes

- Cold-condition open-circuit voltage and hot-condition operating voltage must be calculated using the site design temperatures.
- Module current must remain within each MPPT input-current and short-circuit-current limit.
- Final roof layout must consider orientation, shade, wind loading, fire access, mounting zones and manufacturer clamping requirements.
- The current approved-product listing and exact model suffix must be confirmed before ordering and STC documentation.

Official / reference source

Sigenergy 30 kW commercial inverter and LONGi 580 W module exact Australian model references must be confirmed before procurement.

2. INVERTER, MONITORING AND INSTALLATION NOTES

Sigen C&I; 30 kW reference

30.0 kW three-phase commercial inverter.

Inverter parameter	Reference value
Phase configuration	Three-phase
Rated AC output	30.0 kW
System type	Grid-connected commercial solar
Energy management	Smart monitoring and control platform
Communications	App and web-based monitoring
Installation	Indoor/outdoor subject to exact product rating
Monitoring	mySigen app / monitoring platform

Package compatibility review

Check	Package value	Assessment
Array / inverter ratio	40.60 kWp / 30.0 kW = 1.35	Review against inverter allowance, DNSP rules and design goals
Module electrical data	580 W reference module	Compare exact Imp, Isc, Voc and Vmp with inverter limits
String voltage	Final strings depend on MPPT count and temperature calculations	Complete cold/hot calculations before approval
Monitoring	mySigen app / Sigenenergy monitoring platform	Internet and account commissioning required

Model-specific note: This package is presented as a solar-only commercial configuration. Battery, backup and EMS functions are not included unless separately quoted.

Standard installation and handover scope

Function	Included / expected	Site-dependent requirement
Mounting and DC cabling	Compliant rooftop mounting and PV cabling	Roof type, access, cable route, wind region and fire-access zones
AC connection	Dedicated protection and connection to main switchboard	Switchboard capacity, phase allocation and network service limits
Export control / metering	Configured where required	Compatible meter/CT and DNSP approval conditions
Online monitoring	App / portal setup and customer handover	Stable internet and communications hardware
Commissioning	Electrical tests, settings, labels, serials and photos	Final network settings and approved design
Documentation	Equipment schedule and handover records	LGC/STC eligibility and exact warranty registration requirements

3. SOURCES, WARRANTY AND COMPLIANCE NOTES

Package 3: LONGi Solar + Sigenenergy

The technical values in this package sheet are preliminary references. Open and confirm the latest manufacturer documentation before quoting, ordering or installation.

Manufacturer reference documents

Component	Reference document / confirmation requirement
LONGi Solar module	Exact 580 W Australian model datasheet and approved-product listing
Sigenenergy inverter	Sigenenergy 30 kW commercial inverter and LONGi 580 W module exact Australian model references must be confirmed before procurement.

Final pre-quotation and procurement checklist

Check	Required confirmation
Exact product identity	Confirm full model suffix, phase configuration, firmware/hardware revision and Australian approved-product listing.
Solar array design	Complete cold Voc, hot Vmp, MPPT current, short-circuit current, string quantity, orientation and shading calculations.
Site and network	Confirm roof area and structure, switchboard capacity, service phase, DNSP connection approval and export-control requirements.
Protection and cabling	Finalise DC/AC protective devices, cable sizing, voltage drop, earthing, labelling and fire-access requirements.
Warranty and registration	Use the warranty terms applying to the exact Australian product supplied and complete manufacturer registration after commissioning.
Customer handover	Provide commissioning results, serial numbers, monitoring access, shutdown procedure and system documentation.

Warranty wording

Panel and inverter warranty periods must be verified against the exact Australian product model, sales channel, registration conditions and manufacturer warranty policy applying at the date of supply. Do not publish a warranty period unless it has been confirmed for the exact equipment quoted.

Technical and commercial disclaimer

This consolidated package sheet is a preliminary technical reference and marketing-support document. It is not a construction drawing, network approval, final string design or substitute for current manufacturer installation manuals. Final equipment model, phase configuration, firmware, string allocation, protection, cable sizing, roof layout, export limits, warranty terms and approved-product status must be confirmed after site inspection and before procurement. Installation must comply with applicable Australian Standards, DNSP requirements, manufacturer instructions and local regulations. Manufacturer specifications can change without notice.

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