

SUNGIGA

JKS-215KLAA-100PLAAB

All-in-one Liquid Cooled BESS Solution

Jinko ESS SunGiga features a 215kWh liquid cooled battery, a PCS capable of delivering up to 100kW, and an integrated fire-fighting system all in one IP55 rated container. It's design makes installation in various environments easy. Designed with a multi-level control architecture, it is ready to meet the needs of commercial & industrial (C&I) customers, as well as provide grid ancillary services.



Flexible expansion

- All-in-one design with integrated PCS, reduces shipping and installation costs

- Flexible multi-cabinet expansion: Modular design, support multi-cabinet parallel connection

Reliable and safe

- Intelligent monitoring ensures system safety

- Temperature, smoke and combustible gas sensors to detect and rapidly suppress fire & thermal runaway events

Intelligent liquid cooling

- Non-uniform flow channel design to control cell temperature difference

- Multiple liquid cooling control modes to reduce system power consumption.

Smart and convenience

- Remote upgrade support

- Cloud-based monitoring and operating platform supporting multiple device access

Application Scenarios



Peak shaving

Battery support during high energy demand periods.



Ancillary Services

Supplementary grid support by means of Spot Market and FCAS.



System stability

Enhance the stability, continuity and controllability of new energy generation.



Renewable energy optimisation

Maximisation of renewable energy utilisation by enabling controlled energy dispatch with VPP.



Energy Arbitrage

leveraging the price difference between peak and off-peak tariff periods.



Operational cost savings

Improved LCOE and payback period of renewable energy system.

Battery DC parameters

Cell type	LFP 3.2V/280Ah
Max. charging/discharging rate	0.5P
Cell combination method	1P240S
PACK number	5 pcs
Battery capacity	215 kWh
Battery capacity	768V
Voltage range	672V~864V
Cooling method	Liquid cooling

AC Parameters PCS:JKP-100LN-BA

Rated AC power	100 kW
Rated voltage	400 Vac
Rated AC Current	145A
AC side wiring method	Three-phase, Four-wire
Grid voltage range	340-460 Vac
Cooling method	Intelligent forced air cooling
Power factor	-0.99-0.99
THD of current	≤3% (Full Load)
Current DC component	≤0.5%
Grid frequency range	50/60 Hz± 2.5HZ

System Parameters

Ambient temperature	-20°C~55°C, Derating over > 45° C
Humidity	≤95%RH, no condensation
Altitude	≤2000m
Protection level	IP55
Firefighting method	Aerosol
Anti-corrosion grade	C5 Standard
Communication interface/protocol	Ethernet (LAN)/Modbus TCP
Dimension(WidthxDepthxHeight)	1300x1300x2300 mm
Weight	~2800kg
Certification	IEC62619, IEC63056, IEC61000, IEC62477, AS4777, UL1973, UL9540A
Compliance	AS/NZS 3000, AS/NZS 3008.1.1, AS/NZS 60947.1, AS/NZS 5139:2019, Battery Best Practice Guide, CEC listed

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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