

SUNGIGA

JKS-215KLAA-100PLAA

All-in-one outdoor liquid cooled power station

Jinko Sungiga 100kW/215kWh is an all-in-one PCS + Battery solution.

Sungiga features a patented non-uniform liquid cooling system that improves battery performance, usable energy profiles, and extends its lifespan. With a rigid enclosure enabling installations in various environmental conditions and a PCS control unit adopting a multilevel control architecture, it proves to be an ideal solution for grid ancillary services and commercial and industrial (C&I) applications



Flexible expansion

- All-in-one design with integrated PCS, reducing shipping and installation costs
- Flexible multi-cabinet expansion: Modular design, support multi-cabinet parallel connection

Reliable and safe

- Intelligent monitoring and linkage to ensure system security
- Temperature, smoke, and combustible gas sensors to apply rapid suppression of thermal runaway

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 Parameter

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

AC parameter

Rated AC power	100kVA
Rated voltage	400 Vac
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 parameter

Ambient temperature	-20°C~50°C, Derating over 45°C
Humidity	≤95%RH, no condensation
Altitude	≤2000m
Protection level	IP55
Firefighting method	Aerosol
Anti-corrosion grade	C3/C5(optional)
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