

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	Reliable and safe	Intelligent liquid cooling	Smart and convenience
<div><div><div>❑ All-in-one design with integrated PCS, reducing shipping and installation costs</div><div>❑ Flexible multi-cabinet expansion: Modular design, support multi-cabinet parallel connection</div></div></div>	<div><div><div>❑ Intelligent monitoring and linkage to ensure system security</div><div>❑ Temperature, smoke, and combustible gas sensors to apply rapid suppression of thermal runaway</div></div></div>	<div><div><div>❑ Non-uniform flow channel design to control cell temperature difference</div><div>❑ Multiple liquid cooling control modes to reduce system power consumption</div></div></div>	<div><div><div>❑ Remote upgrade support</div><div>❑ Cloud-based monitoring and operating platform supporting multiple device access</div></div></div>

Application Scenarios

<div><div><div><div></div></div><div><div>Peak shaving</div><div>Battery support during high energy demand periods</div></div></div></div>	<div><div><div><div></div></div><div><div>Ancillary Services</div><div>Supplementary grid support by means of Spot Market and FCAS</div></div></div></div>	<div><div><div><div></div></div><div><div>System stability</div><div>Enhance the stability, continuity and controllability of new energy generation</div></div></div></div>
<div><div><div><div></div></div><div><div>Renewable energy optimisation</div><div>Maximisation of renewable energy utilisation by enabling controlled energy dispatch with VPP.</div></div></div></div>	<div><div><div><div></div></div><div><div>Energy Arbitrage</div><div>leveraging the price difference between peak and off-peak tariff periods.</div></div></div></div>	<div><div><div><div></div></div><div><div>Operational cost savings</div><div>Improved LCOE and paybackperiod of renewable energy system</div></div></div></div>

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	400Vac
AC side wiring method	Three-phase, Four-wire
Grid voltage range	340-460Vac
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℃~50℃, Derating over 45℃
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