



BESS

Arenq Series



BESS



C&I Solar Power & Energy Storage Solution **AQ215KWH-2H_Y**

AQ215KWH-2H_Y is a 215kWh all-in-one liquid-cooled C&I energy storage system by ARENQ, featuring three-tier fire protection, high-efficiency liquid cooling, fully integrated design and intelligent cloud management, safe, durable and flexible for various commercial and industrial energy storage scenarios.



Safe and Reliable

- Multi-layered protection and alert design to monitor short circuits, overcurrent, overvoltage, and overheating in real time.
- Three-Tier Fire Suppression: Modular fire containment, cluster-level isolation, and water mist suppression for rapid emergency response.



Efficient and Reliable

- Powerful 5kW liquid cooling system to handle high temperature environments effectively.
- Maintains a temperature difference of less than 3°C across cells, increasing system lifespan by over 20%.



Integrated and Flexible

- Fully integrated system including lithium iron phosphate batteries, BMS, PCS, EMS, fire suppression, and liquid cooling systems, reduce commissioning work on site.
- 215kWh capacity with a single-unit footprint of just 1.36°C, allowing for flexible installation and easy expansion.



Smart and Robust

- ARENQ Cloud Platform, support remote monitoring, parameter adjustment, system upgrades, data analysis, and fault diagnosis at your fingertips.
- On-site maintenance and repairs made easy with a user-friendly mobile app.



BESS

C&I Solar Power & Energy Storage Solution AQ215KWH-2H_Y



Technical Parameter

System	
Nominal capacity	215kWh
Nominal output power	100kW
Battery cycle time	>6000 times (25°C)
Protection level	IP55
Operating temperature	-30°C~+50°C(>45°C Derating)
Cooling method	Liquid cooling
Fire protection	Aerosol
Altitude	≤4000m(>2000m Derating)
Dimension	1050*1300*2350mm
Weight	≈2400kg
AC (on-grid)	
Nominal power	100kW
Nominal voltage	400V
Nominal current	144A
Nominal frequency	50Hz/60Hz
Power factor	-1~1
AC access method	3W/3W+N
Overload capacity	1.1times (long term) 1.2time (1min)
DC battery	
Cell Type	LFP3.2V/280Ah
Battery system configuration	215kWh/1P240S
Maximum charge / discharge power	110kW
Nominal voltage	768V
Battery voltage range	672V-864V
Charging/Discharging Method	Constant power charging/discharging (dynamically adjustable, maximum 100kW)
AC (off-grid) optional	
Max power of important load	110kW
Nominal voltage	400V
Nominal frequency	50Hz/60Hz
Long term overload capacity	110%
On-grid and off-grid switching time	<2s