



BESS

Arenq Series



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Liquid-Cooled Battery Cabinet AQ208KWH/AQ156KWH/ AQ104KWH

AQ208KWH/AQ156KWH/AQ104KWH is a commercial & industrial liquid-cooled battery cabinet by ARENQ, featuring high protection, long cycle life, three-level safety protection and flexible parallel expansion, which can form a complete PV storage system with 50kW inverter for C&I energy storage and outdoor scenarios.



High Environmental Adaptability

- P55 protection level design, meet the outdoor scene use
- Operating temperature range -20~55 oC



Flexible Configuration

- Maximum support for 16 cabinets in parallel, convenient for capacity expansion
- Matched with mainstream PCS and can be implemented in either centralized or string form



Safe & Reliable

- Three levels of active protection system, accurate monitoring short circuit, over-current, over-voltage, over-temperature and other abnormalities
- Optional PACK level fire protection and cluster level fire protection features are available



Long Life Cycle

- Optional active balancing BMS ensures high cell consistency and extends battery pack lifespan
- Highly efficient liquid cooling system prolongs the service life of the battery system



Liquid-Cooled Battery Cabinet

**AQ208KWH/AQ156KWH/
AQ104KWH**



Technical Parameter			
	4-Pack	3-Pack	2-Pack
Cell Nominal Capacity	314 Ah	314 Ah	314 Ah
Battery Pack Nominal Energy	52.24 kWh	52.24 kWh	52.24 kWh
System Energy	208.96 kWh	156.72 kWh	104.48 kWh
Nominal Voltage	665.6 V	499.2 V	332.8 V
Operating Voltage Range	582.4-759.2 V	436.8-569.4 V	291.2-379.6 V
Compatible Inverter Power	50-100 kW	50-75 kW	50 kW
Max Charge/Discharge Rate	0.5C		
Cycle Life	≥ 6,000 cycles (25°C, 0.5C/0.5C, 80% EOL)		
Max Parallel Units	16 (DC-side parallel, grid-tied mode)		
Dimensions (W × D × H)	1,000 × 1,350 × 1,850 mm		
Weight	≥2,050 kg	≥1720 kg	≥1390 kg
Ingress Protection	1P55		
Cooling Method	Liquid cooling		
Fire Suppression	Aerosol-based fire suppression system		
Installation Environment	Outdoor		
Operating Temperature Range	-30°C to +55°C		
Altitude	≤ 3,000 m (derating above 2,000 m)		
Certifications	UN 38.3, CE		
Compatible Inverters*	Solis: S6-EH3P50K-H		

Important Notice: while the battery cabinet supports hybrid inverters from 50kW to 100kW, only 50kW models have completed validation and are available now. For projects requiring non-50kW or non-Solis configurations prior to official release, please consult our technical team regarding roadmap alignment and early-access possibilities.