



Lithium Battery

Arenq Series



ESS



**Stackable/
Parallel Battery**

The ARENQ Series is also fully compatible with modern hybrid inverter systems, enabling seamless integration with solar energy applications for efficient energy storage and utilization. With advanced BMS protection and intelligent communication support, the batteries ensure optimized charging, enhanced safety, and stable operation with hybrid solar inverters. Additionally, ARENQ batteries support multi-parallel battery configurations, allowing users to expand backup capacity and energy storage as per requirement. The scalable parallel architecture enables higher power output, extended backup duration, and flexible system design for residential, commercial, and small industrial applications. This makes the ARENQ Series an ideal solution for future-ready energy storage systems requiring reliability, scalability, and high-performance operation.



Compatible with Home Inverters & Hybrid Solar Inverters.



Multi-Parallel Battery Support for Capacity Expansion



Long Cycle Life & High Durability



Fast Charging Capability



Deep Discharge Performance



Compact & Space Saving Design



Lightweight Compared to Conventional Batteries



Modular & Scalable Energy Storage Solution



Smart Communication Support (Optional CAN/RS485)



High Safety & Thermal Stability





Models	AQ25ES100P	AQ25ES230P	AQ25ES314P	AQ51ES100P	AQ51ES230P	AQ51ES314P
Power (W)	2560	5888	8038.4	5120	11776	16076.8
Nominal Voltage (V)	25.6				51.2	
Capacity (AH)	100	230	314	100	230	314
No of Cell in Series	8			16		
No of Cell in Parallel	1			1		
Total No of Cell	8			16		
Cell Type	Prismatic					
Chemistry	LiFePO ₄					
Communication	RS485, can bluetooth optional					
	Electrical Characteristics					
Maximum Cut-Off Voltage (V)	29.2			58.4		
Minimum Cut-Off Voltage (V)	22.4			44.8		
Charging Voltage (V)	29.2			58.4		
Charging Current Range (A)	50	100	160	50	100	160
Discharging Current Range (A)	100	200	200	100	200	200
Cell Discharging Protection Level (V)	2.8					
Cell Charging Protection Level (V)	3.65					
Balancing Current (mA)	200					
Cycle Life	6000+					
DOD Level	80%					
	Temperature					
Working Temperature (°C)	-20 °C to +60 °C					
Storage Temperature (°C)	23 °C - 27 °C 30% SOC					
Dimension (mm)	Customised					
Weight Kg Approx.	30			55		
Power Connector	As per Requirement					