



EQTCA107P30AC

EQTCA107P50AC

107kWh

All-in-one BESS Cabinet



Compact & Efficient design

- The cabinet ESS boasts a compact design, minimizing its footprint while still offering substantial energy storage capacity of 107kWh. This makes it ideal for applications where space is limited
- The efficient design integrates all critical components, including the battery system, PCS, and safety features, into a single, self-contained unit



Versatile Application & Grid Compatibility

- The cabinet ESS supports both on-grid and off-grid operation, offering flexibility for various applications and grid configurations
- The system is designed for easy connection to various energy sources, including wind turbines, diesel generators, and the grid, enhancing its versatility
- It can be seamlessly integrated with solar power systems, facilitating efficient renewable energy utilization and grid stabilization



Solid & reliable

- The cabinet ESS incorporates multiple safety features, including a robust fire-fighting system (Novec 1230), IP55 protection for the battery compartment, and IP54 protection for the electrical compartment
- The system is highly responsive, with a response time of less than 100ms, enabling it to effectively support grid auxiliary services
- Modularized design for an optimized O&M operation. Parallel connection of multiple cabinets for increased power & capacity.



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Item	Specification		Remark
Product model	EQTCA107P30AC	EQTCA107P50AC	
Configuration	20S1P		
Rated energy	107kWh		
Cycle life	6000		
Cell capacity	280Ah		
Rated output voltage	400V		
Rated input voltage	400V		±15%
Dimension	1233mm × 1304mm × 2093mm		W×D×H
Max Weight	~1500kg		
Rated power	30kW	50kW	
Operating ambient temp.	-20~50℃		
IP level	IP55 (Battery compartment) IP54 (Electrical compartment)		
Max output current	43A	72A	
Harmonics	<3% (@rated power)		
Fire protection	Combustible gas detection + Novec1230 + water fire suppression		
Corrosion resistance	C4		
Environment humidity	0%~95%		
Operating altitude	<2000m		
Noise emission	≤75dB		
Cooling and heating type	HVAC (Battery compartment) & forced air cooling (Electrical compartment)		
Communication interface	RS485, Ethernet		
Communication protocol	Modbus RTU, Modbus TCP/IP		



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Item	Specification		Remark
MPPT	Optional		
Max. DC input power	30kW/60kW	30kW/60kW/90kW/100kW	
MPPT voltage range	200V~850V		
Number of MPPT	1/1	1/1/2/2	
Number of PV inputs	1/1	1/1/2/2	
Max. input current	100A/200A	100A/200A/300A/400A	
Executive standard	IEC62619-2022, UN38.3, UL1973, UL1642, UL9540A		For cell
	IEC62477-2022, IEC62619-2022, IEC62109, IEC61000, G99, EN50549, VDE4105, AS4777, UN3480		For system