

ESS- Cabinet Series

Large-scale Applications

ESS-CAB Series battery system is engineered to meet the vast energy demands of industrial and commercial enterprises. This system offers huge energy storage capacity, ensuring a reliable and continuous supply of power for Mission Critical and demanding applications.



Huge energy capacity



Advanced LFP technology



Modularity and scalability



Smart temperature management system



10-year warranty



IP54 protection grade

System Parameter	100kW/200kWh	100kW/215kWh	125kW/225kWh	125kW/241kWh
Cooling Method	Air-cooled			

Battery Parameters

Rated Battery Capacity	200.7kWh	215kWh	225kWh	241kWh
Rated System Voltage	716.8V	768V	716.8V	768V
Battery Type	Lithium Iron Phosphate Battery (LFP)			
Cell Capacity	280Ah	280Ah	314Ah	314Ah
Max. Charge/Discharge Current	140A	140A	157A	157A
Battery Series-parallel Connection Method	1P*16S*14S	1P*16S*15S	1P*16S*14S	1P*16S*15S
Charge temp./Discharge temp.Method	0~55°C / -20~55°C			

PV Parameters (Optional; none /50kW/150kW)

Max. PV Input Voltage	1000V			
Max. PV Power	100kW		125kW	
MPPT Quantity	3			
MPPT Voltage Range	250-620V			
MPPTFull Load Open Circuit Voltage Range (Recommended)*	345V-580V	345V-620V	360V-580V	360V-620V

AC Parameters

Rated AC Power	100kW	125kW
Nominal AC Current Rating	144A	
Max. AC Current Rating	173A	
Rated AC Voltage	400Vac/230Vac ,3W+N+PE /3W+PE	
DC Side Voltage Range	580~1000V (3P3W) / 670~1000V (3P4W)	
DC Side Full Load Voltage Range	625~950V (3P3W) / 670~950V (3P4W)	
Rated Frequency	50Hz/60Hz(±5Hz)	
Total Current Harmonic Distortion (THD)	<3% (Rated Power)	
Power Factor Adjustable Range	1 Ahead ~ +1 Behind	

General Parameters

Protection Level	IP55			
Fire Protection System	Aerosols / Perfluorohexanone / Heptafluoropropane			
Isolation Method	Non-isolated (Optional Transformer)			
Operating Temperature	-25°C~60°C (>45°C derating)			
Altitude	3000m(>3000m Derating)			
Communication Interface	RS485 / CAN2.0 / Ethernet / Dry contact			
Dimension (L*W*H)	1850*1430*2300mm			
Weight (With Batteries Approx.)	2350kg	2400kg	2450kg	3090kg

Certification

Electric Safety	IEC62619/IEC62477/EN62477			
EMC (Electromagnetic Compatibility)	IEC61000/EN61000/CE			
Grid-connected And Islanded	IEC62116			
Energy Efficiency And The Environment	IEC61683/IEC60068			