

AESS Air-cooled

125kW Specification



AESS Battery ESS







Model	430 kWh	645 kWh	
Battery Cell Data			
Battery Chemistry	Lithium Iron Phosphate (LFP)		
Cell Cycle Life	8000 Cycles, 0.5C 25°C, 70% EOL		
Cell Specification	3.2V/280Ah		
Battery Rack Data			
Туре	Rack II		
Nominal Voltage	768 V		
Voltage Range	672 - 864 V		
DC Energy Capacity	430.08 kWh	645.12 kWh	
Number of Racks	2	3	
Bi-Directional Power Conversion Sy	/stem (PCS)		
Rated Power	125 kW		
Maximum Power	137 kW		
Max Charging/Discharging Current	220A		
Battery Switch-off Mode	5	Switch	
Rated On-Grid Voltage	380VAC or 400VAC		
Rated On-Grid Frequency	50/60 Hz(±2.5%) or 60 Hz(±0.5%)		
Rated Off-Grid Voltage	380VAC(±10% configurable) or 400VAC(±10% configurable)		
Rated Off-Grid Frequency	50/60Hz or 60 Hz		
Power Factor	Listed: 0.8~1 leading or lagging		
	Actual: 0.1~1 leading or lagging		
Off-Grid Overload Capacity	105%~115% 10 min		
	115%~125%, 1 min		
	125%~150%, 200 ms		
THDi	<3%		
Peak Efficiency	98.20%		
CEC Measured Efficiency	97% w/d	97% w/o transformer	
DC/DC for PV Input	·		
Rated Power	2	250 kW	
Maximum Power	3	350 kW	
PV Voltage Range	250	250 - 800 V	
Current to DC Bus	650 A		
Peak Efficiency	9	98.60%	
	OTP, OVP/UVP, EPO, Fan/Relay Failure, OLP		



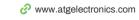


Compliances



Configurable Protection Limits







Upper/Lower Voltage, Battery EOD voltage CE LVD IEC 62109/62477, CE EMC IEC 61000, UL1741







Model 430 kWh 645 kWh

General Specifications			
	Forced air cooling for power electronics		
Cooling	5 or 7.5 kW Air-conditioned for battery system with heater and dehumidifier		
Noise	70 dB		
Enclosure	NEMA 3R		
Max elevation	3000 m/10000 ft (> 3000 m/10000 ft De-rating)		
Operating ambient temperature	-20°C to 50°C (De-rating over 45°C)		
Humidity	0~95% (No condensing)		
Size (W×H×D)	6058×2591×2438 mm/20×8.6×8 ft		
Weight	≤8.5T	≤10T	
Other			
Fire Fighting System	Smoke detector and heat detector, Fire Supression via NOVEC 1230 or FM200 or water		
Salt spray prevention	Optional salt spray prevention version with special coating and filter		
Certifications	UL9540 (On Demand), UL1973, UL9540A		
AC Connection	3-Phase 3-Wire+PE at Inverter Connection/3-Phase 4-Wire+PE at System Connection		
AC System Output Voltage	480 VAC		
Isolation	Isolation Transformer		

Images are representative and may not match the final product. Specifications are subject to change without notification













