



AESS Air-cooled 250kW Specification



AESS Battery ESS



00000



Model	645 kWh	860 kWh	
Battery Cell Data			
Battery Chemistry	Lithium Iror	Lithium Iron Phosphate (LFP)	
Cell Cycle Life	8000 Cycles, (8000 Cycles, 0.5C 25°C, 70% EOL	
Cell Specification	3.2	3.2V/280Ah	
Battery Rack Data			
Туре	Rack II		
Nominal Voltage	768 V		
Voltage Range	672 - 864 V		
DC Energy Capacity	645.12 kWh	860.16 kWh	
Number of Racks	3	4	
Bi-Directional Power Conversion S	ystem (PCS)		
Rated Power	250 kW		
Maximum Power	275 kW		
Max Charging/Discharging Current	440 A		
Battery Switch-off Mode	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/	97% w/o transformer	
DC/DC for PV Input			
Rated Power		400 kW	
PV Voltage Range	25	250 - 800 V	
Current to DC Bus		1040 A	
Peak Efficiency	Ş	98.60%	
Protection	OTP, OVP/UVP, EP	OTP, OVP/UVP, EPO, Fan/Relay Failure, OLP	
Configurable Protection Limits	Upper/Lower Voltage, Battery EOD voltage		
Compliances	CE LVD IEC 62109/62477, CE EMC IEC 61000, UL1741		



 $\left((\begin{smallmatrix} 0\\ \Delta \end{smallmatrix})\right)$

Ħ

 \bigcirc

00000



Model	645 kWh	860 kWh		
General Specifications				
	Forced air cooling for power electronics			
Cooling	7.5 kW Air-conditioned for battery system with heater and dehumidifier			
Noise		70 dB		
Enclosure	N	NEMA 3R		
Max elevation	3000 m/10000 ft (> 3	3000 m/10000 ft (> 3000 m/10000 ft De-rating)		
Operating ambient temperature	-20°C to 50°C (-20°C to 50°C (De-rating over 45°C)		
Humidity	0~95% (1	0~95% (No condensing)		
Size (W×H×D)	6058×2591×2	6058×2591×2438 mm/20×8.6×8 ft		
Weight	≤10.5T	≤12.5T		
Other				
Fire Fighting System	Smoke detector and heat detector, Fire S	Smoke detector and heat detector, Fire Supression via NOVEC 1230 or FM200 or water		
Salt spray prevention	Optional salt spray prevention	Optional salt spray prevention version with special coating and filter		
Certifications	UL9540 (On Dema	UL9540 (On Demand), UL1973, UL9540A		
AC Connection	3-Phase 3-Wire+PE at Inverter Connecti	3-Phase 3-Wire+PE at Inverter Connection/3-Phase 4-Wire+PE at System Connection		
AC System Output Voltage	4	480 VAC		
Isolation	Isolation	Isolation Transformer		

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



 $\left((\begin{smallmatrix} 0 \\ \bigtriangleup \end{smallmatrix} \right) \right)$

 \bigcirc