

# AESS Air-cooled

## 375kW Specification



**AESS  
Battery ESS**



## Model

## 860 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

Type	Rack II
Nominal Voltage	768 V
Voltage Range	672 - 864 V
DC Energy Capacity	860.16 kWh
Number of Racks	4

### Bi-Directional Power Conversion System (PCS)

Rated Power	375 kW
Maximum Power	412.5 kW
Max Charging/Discharging Current	660 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/o transformer

### DC/DC for PV Input

Rated Power	750 kW
PV Voltage Range	500-1500 V
Current to DC Bus	750 A
Peak Efficiency	98.96%
Protection	OTP, EPO, Fan/Relay Failure, OLP, Reverse Connection Protection
Configurable Protection Limits	Battery EOD voltage
Compliances	CE LVD IEC 62109/62477, CE EMC IEC 61000, UL1741 (Pending)



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### General Specifications

Cooling	Forced air cooling for power electronics 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	≤13.2T

### Other

Fire Fighting System	Smoke detector and heat detector, Fire Suppression 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

