

OUTDOOR ESS: AIR COOLED

IES 144-A ~ 257-A



Scalable Capacity Up
to 257 kWh



Intelligent Air
Cooling System



Industrial - Grade
IP55 Enclosure



High - Safety LFP System
With Multi-Level BMS



Intelligent Cloud
Monitoring & Control



Rapid Plug-and-Play
Deployment

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Outdoor ESS Air Cooled	IES 144-A	IES 160-A	IES 176-A	IES 192-A
	IES 208-A	IES 225-A	IES 241-A	IES 257-A
Cell Technology	LFP (LiFePO4)			
Battery Module	16.0768 kWh, 51.2 V, 112kg (246.92 lbs)			
Number of Modules	9	10	11	12
	13	14	15	16
Battery Usable Energy [1]	144.69 kWh	160.77 kWh	176.84 kWh	192.92 kWh
	208.99 kWh	225.08 kWh	241.15 kWh	257.23 kWh
System Nominal Voltage	460.8 V	512 V	563.2 V	614.4 V
	665.6 V	716.8 V	768 V	819.2 V
System Operating Voltage	403.2 ~ 518.4 V	448 ~ 576 V	492.8 ~ 633.6 V	537.6 ~ 691.2 V
	582.4 ~ 748.8 V	627.2 ~ 806.4 V	672 ~ 864 V	716.8 ~ 921.6 V
Max. Charge & Discharge Current	157A			
Recommend Depth of Discharge	90%			
Charge / Discharge Rate	0.5C			

OTHER PARAMETERS

Dimension (W×D×H)	1400 x 1335 x 2373 mm 55.12 × 52.56 × 93.43 inch			
Weight	2216 kg (4885.44 lbs)	2328 kg (5132.36 lbs)	2440 kg (5379.27 lbs)	2552 kg (5626.19 lbs)
	2664 kg (5873.11 lbs)	2776 kg (6120.03 lbs)	2888 kg (6366.94 lbs)	3000 kg (6613.86 lbs)
Operating Temperature [2]	Charge: 0°C to 50°C (32°F to 122°F) Discharge: -20°C to 50°C (-4°F to 122°F)			
Environmental Humidity	≤ 95%RH (No condensation)			
IP Protection	IP55			
Anti Corrosion Level	C4-M			
Warranty Period [3]	10 Year			
Cooling Method	Forced air cooling			
Altitude	≤4000 m(> 2000m Derating)			
Display	LCD Display (battery operating status, SOC, alerts, etc.)			
Communication	CAN / RS485 / Bluetooth + WI-FI			
Scalability	Up to 10 in Parallel			
Compatible Inverters	Refer to compatible Hybrid Inverter list			
Cycle Life	8 000 cycles (25±2°C, 0.5C / 0.5C, 70% SOH)			
Fire Protection System	Gas fire fighting (aerosol): cabinet level, water fire fighting, smoke sensing, temperature sensing, pressure relief valve			

STANDARD COMPLIANCE

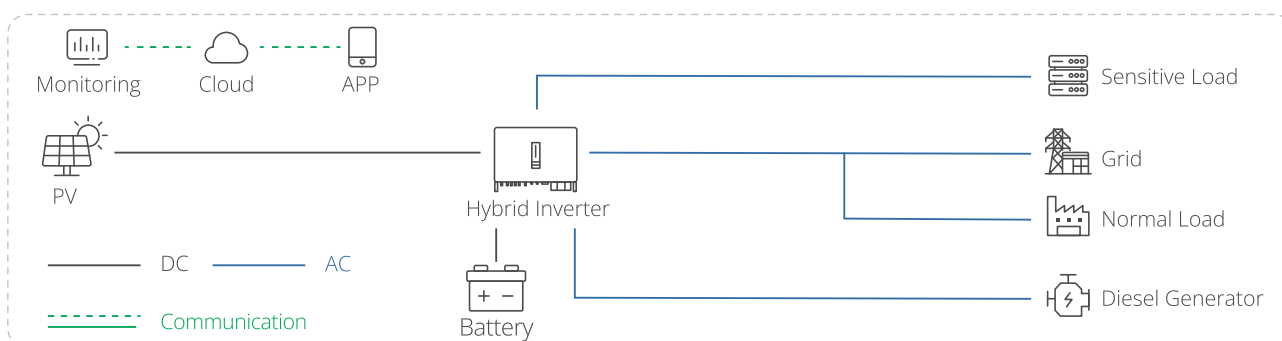
Compliance	UN38.3/IEC62619/63056/60730/IEC6100-6-2/IEC62477-1
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[1] Test conditions: 100% depth of discharge (DOD), 0.5C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

[3] Please refer to the Warranty Letter for applicable conditions.

SYSTEM DIAGRAM



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