

Model

IES 105-221-A Air Cooling ESS



[Front Maintenance & Modular Design]

Facilitates station deployment and equipment maintenance

[Safe & Reliable]

Multi-level early warning and fire suppression design

[Efficient Thermal Management System]

System temperature difference $\leq 7^{\circ}\text{C}$,
operating temperature rise $< 10^{\circ}\text{C}$

[Smart O&M]

Supports remote monitoring, troubleshooting and data analysis

[High Integration]

Supports AC and DC integration, greatly reducing on-site installation and debugging work

[Flexible & Friendly]

Convenient energy management, supports peaking shaving, demand-side response, grid expansion

DATASHEET

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Battery Side Parameters

Cell technology	LFP-3.2V/314Ah
Battery module	20.096kWh,64V
Number of packs	11
Battery system rated capacity	221.056kWh
Battery system rated voltage	704V
Battery system rated current	157A
Battery system voltage range	616V-792V
Battery system charge/discharge rate	0.5P

AC side parameters

Rated output power	105 kW
Rated grid voltage	400 V
Maximum output current	167A
Allowable grid voltage range	340 V-440 V
Rated grid frequency	50Hz/60Hz
Output THDi	< 3%
Power factor	-1~1
AC Output Format	3W+PE
Overload capacity	110% (long-term), 120% (1min)
Charge/discharge switching time	< 100ms
Maximum efficiency (PCS)	98.5%

Other Parameters

Dimension (W×D×H)	1380×1540×2330mm 54×61×90 inch
Weight	2750 kg (6062.71 lbs)
Operating temperature range	-30°C~+55°C (-22°F~+131°F) (Derating below -15°C or above 45°C)
Relative humidity	0 ~ 95% (No condensation)
Maximum working altitude	3000m (> 2000m Derating)
Noise	≤75dB
Ingress protection rating	IP55
Heat dissipation method	Forced air cooling
Firefighting	Aerosol: module-level (optional) + stack-level, water firefighting, combustible gas detection and exhaust
Communication	CAN/RS485/TCP
Cycle life	8000 cycles (25±2°C, 0.5P/0.5P, 70% SOH)

Standard Compliance

Compliance	UN38.3 / UN3480 / IEC62619 / IEC61000 / IEC62477-1 / CQC (More available upon request)
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