

On-Grid ESS

# ALL-IN-1: AIR COOLED

## IES 105-221-A



### Safe & Reliable

Multi-level early warning and fire suppression design



### Front Maintenance & Modular Design

Facilitates station deployment and equipment maintenance



### Smart O&M

Supports remote monitoring, troubleshooting and data analysis



### Flexible & Friendly

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



### High Integration

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



### High Rate Switching

Equipped with advanced 1C high-capacity cells, it easily empowers you to handle high-demand scenarios like frequency modulation and capacity expansion.

INFINITE | ENERGY | STORAGE

All-in-One: Air Cooled		IES 105-221-A	
Cell Technology	LFP-3.2V/314Ah		
Battery Module	20.096 kWh, 64 V		
Number of Packs	11		
Battery System Rated Capacity	221.056 kWh		
Battery System Rated Voltage	704 V		
Battery System Rated Current	157 A		
Battery System Voltage Range	616 V - 792 V		
Battery System Charge/Discharge Rate	0.5P		
AC SIDE PARAMETERS			
Rated Output Power	105 kW		
Rated Grid Voltage	400 V		
Maximum Output Current	167 A		
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% (1 min)		
Charge/discharge Switching Time	<100ms		
Maximum Efficiency (PCS)	98.5%		
OTHER PARAMETERS			
Dimension (W×D×H)	1380 × 1540 × 2330 mm   54 x 61 x 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	IP 55		
Heat Dissipation Method	Forced Air Cooling		
Firefighting	Aerosol: Module-level (optional) + Stack-level, Water Firefighting, Combustible Gas Detection & 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)		