

On-Grid ESS

# ALL-IN-1: AIR COOLED

## IES 105-221-A



### High Integration

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



### Flexible & Friendly

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



### High Rate Switching

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



### Safe & Reliable

Multi-level early warning and fire suppression design



### Front Maintenance & Modular Design

Facilitates easy access for equipment maintenance



### Smart O&M

Supports remote monitoring, troubleshooting and data analysis

INFINITE | ENERGY | STORAGE

[www.ies.co.za](http://www.ies.co.za) | 021 773 0203 | [support@ies.co.za](mailto:support@ies.co.za) | 066 225 4717

All-in-One: Air Cooled		IES 105-221-A	
Cell Technology		LFP-3.2 V / 314 Ah	
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		≤75 dB	
Ingress Protection Rating		IP55	
Heat Dissipation Method		Forced Air Cooling System (HVAC)	
Firefighting		Aerosol: Module-level (Optional) + Stack-level, Water Firefighting, Combustible Gas Detection and Exhaust	
Communication		CAN / RS485 / TCP	
Cycle Life		8 000 Cycles (25±2°C, 0.5P/0.5P,70% SOH, 90%DOD / 10 Years, whichever comes first)	
STANDARD COMPLIANCE			
Compliance		UN38.3 / UN3480 / IEC62619 / IEC61000 / IEC62477-1 / CQC (More available upon request)	