

# ALL-IN-1: HYBRID

## IES 50-61-A



### Flexible Applications

Supports multiple application scenarios, such as on-grid, on/off-grid, off-grid, ect.



### High Efficiency

4 MPPTs photovoltaic DC bus connections, high conversion efficiency



### Smart O&M

Supports remote monitoring, troubleshooting and data analysis



### High Integration

Supports AC and DC integration, save on-site installation and debugging workload



### Safe & Reliable

Multi-level early warning and fire suppression design



### Front Maintenance & Modular Design

Facilitates station deployment and equipment maintenance



### Seamless Switching

Supports seamless switching on grid and off grid, high reliability of power supply

<b>All-in-One: Hybrid</b>		<b>IES 50-61-A</b>
Cell Technology	LFP-3.2V/100Ah	
Battery Module	5.12kWh, 51.2V	
Number of Packs	12	
Battery System Rated Capacity	61.44kWh	
Battery System Rated Voltage	614.4V	
Battery System Rated Current	80A	
Battery System Voltage Range	480V - 700.8V	
Battery System Charge/Discharge Rate	0.8P	
<b>AC SIDE PARAMETERS</b>		
Rated Output Power	50 kW	
Rated Grid Voltage	3L/N/PE220/380, 230/400Vac	
Maximum Output Current	76 A	
Allowable Grid Voltage Range	230 V - 400 V	
Rated Grid Frequency	50Hz/60Hz	
Output THDi	<3%	
Power Factor	-1~1	
Overload Capacity	110% (Long Term), 120% (1 min)	
On/off Grid Switching Time	<20ms	
Charge/Discharge Switching Time	<100ms	
Maximum Efficiency	97.80%	
<b>PV SIDE PARAMETERS</b>		
PV Side Voltage Range	150V-850V (Full Power Above 500 V)	
DC Maximum Current	4*30 A	
DC Maximum Power	75 kW	
MPPT Quantity	4	
<b>OTHER PARAMETERS</b>		
Dimension (WxDxH)	735 x 1045 x 2235 mm   29 x 41 x 88 inch	
Weight	1220 kg (2689.6 lbs)	
Operating Temperature	-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	6000 Cycles (25±2°C, 0.5P/0.5P, 70% SOH)	
<b>STANDARD COMPLIANCE</b>		
Compliance	UN38.3 / UN3480 / IEC62619 / IEC61000 / IEC62477-1 / CQC (More available upon request)	