

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.

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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	
AC SIDE PARAMETERS		
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%	
PV SIDE PARAMETERS		
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	
OTHER PARAMETERS		
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)	
STANDARD COMPLIANCE		
Compliance	UN38.3 / UN3480 / IEC62619 / IEC61000 / IEC62477-1 / CQC (More available upon request)	