

ALL-IN-1: HYBRID

IES 50-61-A



Profit Maximization

Adapts to On Grid, Off Grid, and Hybrid Modes for Optimal Revenue. Use 4-channel MPPT PV DC bus to Boost Energy Efficiency and Profitability.



Comprehensive Safety

Ingress Multi Level Alerts and Fire Suppression (Gas, Water, Ventilation) for Asset Protection. Remote Monitoring, and Real Time Analysis Ensure Operational Safety.



Intelligent O&M

One Click management for Remote Monitoring, troubleshooting and data analysis. Grid Switching ensures Reliable Power Supply.



Modular Design

AC/DC Integration Simplifies Installation and Reduces Costs. Modular Structure for Quick Maintenance and Upgrades.

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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 (W×D×H)	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)	