

Commercial & Industrial Energy Storage System



Full-Scenario

Supporting PV access, transitioning from on-grid to off-grid, and encompassing the entire spectrum of photovoltaic systems, energy storage, and diesel generators.



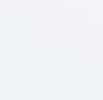
Intelligent Management

Local monitoring screen can realize various functions such as system operation monitoring, energy management formulation and remote software upgrade of equipment.



Safe & Reliable

Three-stage detection + active exhaust + explosion-proof design to eliminate hidden hazards and ensure safe operation.



Continuity & Robust

170% max backup @10s handles overloads and 200% max backup @3s handles overloads, and 0ms seamless switching (Optional). Forms the foundation of a highly reliable power supply.

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Model	DC-125K241-YG1
PV Input	
Nominal PV Input Power (kW)	125
Max. PV Input Power (kW)	137.5
Max. PV Input Voltage (V)	700
Start Voltage (V)	150
MPPT Voltage Range (V)	150-700
Full Load Voltage Range (V)	350-700
Max. Input Current (A)	50+50+50+50+50+50+50+50
Number of MPPT	8
AC Input	
Nominal AC Input Power (kW)	125*
Nominal Input Voltage (Vac)	400
Max. AC Input Current (A)	198
Wiring Method	3L/N/PE
Nominal Operating Frequency (Hz)	50/60±5%
Power Factor	1 (Leading) - 1 (Lagging)
Unbalanced Load	100%
*: Under the 0ms switching and phase-loss scenarios, the Nominal AC Input Power is 50kW	
AC Output	
Nominal AC Output Power (kW)	125
Nominal AC Output Voltage (Vac)	400
Total Current Harmonic Distortion	<3%
Nominal AC Frequency (Hz)	50/60±5%
Switch Time (s)	30/0 (Optional)
Overload Capability	10s @ 110%<Load≤170% 3s @ 170%<Load≤200%
Isolation Transformer (kVA)	125
Battery	
Battery Type	LiFePO ₄
Rated Voltage (Vdc)	768
Battery Voltage Range (Vdc)	672-864
Rated Current (A)	157
Max. Charge/Discharge Current (A)	180
Rated Capacity (Ah)	314
Battery Energy (kWh)	241
Cycle Life	6000 (@±25°C, 0.5C/0.5C, 70% EOL, 90% DOD)
General	
Dimensions (W*D*H, mm)	2050*1250*2250
Net Weight (kg)	<3500
Operating Temperature Range (°C)	-30~60 (>45°C Power Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	Ethernet/Wi-Fi/RS485/CAN/4G (Optional)
Display	Touch Screen/Cloud Platform
Parallel Capability	5 (Off-grid)
Cooling Method	Air Cooling
Noise Level (dB)	≤65
Ingress Protection	IP55
Anti-corrosion Grade	C3/C5 (Optional)
Fire Protection	Aerosol (Optional Perfluorohexanone)

