

125/418kWh Energy Storage System

HA-125-418-4



Supports AC400V direct coupled photovoltaics without the need for transformers

This product is specifically optimized for photovoltaic-storage integrated applications, enabling direct parallel coupling with AC400V-compatible photovoltaic inverters to achieve transformer-free integration, significantly reducing system costs and losses.



Comprehensive Safety

- **Proactive Alert** Cell-level monitoring, early warning
- **Multi-Level Protection** Pack, cluster, cabin isolation
- **Fire & Explosion Prevention** Triple fire protection, vent design



High Efficiency

- **High Conversion** System efficiency $\geq 87\%$
- **AI-Powered Scheduling** Optimized energy dispatch
- **Maximized ROI** Peak shaving & other revenue streams



Simple O&M

- **Cloud Diagnosis** Fault identification in seconds
- **Remote Management** Cloud-based monitoring & control
- **24/7 Guardian** Expert team always on watch



Easy Deployment

- **Plug & Play** Pre-installed, powered on arrival
- **Time Saving** Drastically reduces installation time
- **Scalable Design** Modular expansion as needed



Peak Shaving



Arbitrage



Backup Power



Grid Services

Model	HA-125-418-4
Battery Side	
Cell Type	LFP Lithium Iron Phosphate
Rated Cell Capacity	314Ah
Cell Nominal Voltage	3.2V
Cell Rated Energy	1004.8Wh
Pack Configuration	1P52S
System Configuration	1P416S
Pack Rated Energy	52.249kWh
System Rated Energy	417.996kWh
System Nominal DC Voltage	1331.2VDC
Operating Voltage Range	1040~1497VDC
Rated Current	157A
Charge/Discharge Rate	0.5P
Balancing Mode	Passive Balancing
AC Side	
Rated Voltage	3P+PE (+N), 400 V
Voltage Range	-15%~+10%
Wiring Mode	3P+PE (+N)
Rated Power	125 kW
Maximum Power	137.5 kVA
Rated Current	180 A
Maximum Current	198 A
Rated Frequency	50/60 Hz
Power Factor	0.99 (leading) to 0.99 (lagging)
THDi	<3% (at rated power)
THDu (Off-grid)	<3% (no-load & balanced resistive load)
Overload Capacity	1.1× (long-term); 1.2× (10 min)
Max. Efficiency	≥98%
System Side	
Fire Protection System	Cabin-level aerosol + Pack-level aerosol + Water-based fire suppression
Cabinet Dimension (W×D×H)	1400×1420×2360mm
Total Cabinet Weight	3800kg
IP Rating	IP54
Corrosion Resistance Rating	C4
Cooling Method	Liquid Cooling
External Communication Interface	RS485, LAN, CAN
Operating Temperature	-30~55°C (Charge:0~55°C; Discharge:-30~55°C)
Operating Humidity	4% ~ 100% RH, non-condensing environment
Altitude	≤2000m (power derating required above 2000m)
Max. DC Units in Parallel	4
Max. AC Units in Parallel	16 (Non-Master/Slave); 5 (Master/Slave)