Consistent
Energy Storage Concept
CESC



Mercury 261 kWh Hybrid ESS

Liquid Cooled Energy Storage Integrated System

The Mercury 261 Hybrid ESS is a liquid-cooled, integrated energy storage system for small to medium C&I applications. Featuring multi-layered safety and smart BMS/EMS integration, it efficiently manages energy through demand-side management, and real-time grid dispatch, optimizing utilization for peak shaving, backup power, and renewable.

Efficient and Flexible

- Modular architecture enables fast on-site deployment with simple wiring and configuration.
- Achieves uninterrupted power transfer between grid-tied and off-grid modes in under 10ms, ensuring continuous power supply for critical industrial and commercial loads.

Safe and Efficient

- 10 Independent MPPTs | 42A Max. PV Input per Tracker.
- Smart liquid cooling control technology ensures battery cell temperature difference ≤ 3°C.
- Full cell-level temperature monitoring paired with real-time multi-parameter monitoring for early warning of single-cell risks.
- A multi-level safety system provides fire detection and suppression from cell, pack and cabinet levels all the way to the cabinet, fully mitigating thermal runaway risks.

Cost-Optimized & Long-Life

- Effectively mitigates penalties and extra charges caused by unbalanced three-phase output, helping customers reduce utility billing costs.
- Equipped with Grade A+ cells to deliver stable and consistent system performance.
- The enclosure meets C4 (Optional C5) corrosion protection, making the system suitable for harsh environments including coastal areas, industrial zones, and high-humidity locations.

Intelligent O&M

- Both the cloud and the app enable real-time data acquisition and status synchronization, supporting anytime remote monitoring of system performance.
- Equipped with 2A active cell equalization, the BMS utilizes battery acquisition IC from Texas Instruments (American brand) to deliver precise cell monitoring.
- End-to-end intelligent sensing and predictive analytics enable fully automated, intelligent system O&M

Mercury 261kWh

Battery Parameters	
Battery type	Lithium iron phosphate (LFP)
Rated Capacity	314 Ah
Cycle Life	8000 cycles @ (0.5P/0.5P, DOD100%, 70% EOL)
Configuration	1P260S
Rated energy	261 kWh
DC rated voltage	832 V (25°C±2°C)
DC working voltage range	728 V ~ 936 V
Max.DC Power	0.5P
Inverter Parameters	
Rated power	125 kW
AC output voltage	230 V / 400 V
Max. PV input voltage	1000 V
MPPT voltage range	150 V ~ 950 V
Max.PV input power	250 kW
Max. input current	10*42 A
MPPT number	10
Max. MPPT strings number	20
Back-up Parameters	
Rated Voltage	380 V / 400 V / 415 V，3P+PE(+N)
Rated Frequency	50/60 Hz
Rated AC Power	125 kW
Maximum AC Power	137.5 kVA
Overload Capacity	1.5 times, 10 s; 1.6 times, 0.2 s
THDU	< 2%
Switching Time	< 10ms
System Parameters	
IP rating	IP55
Altitude	<2000m
System Max. efficiency	88%
System Depth of Discharge	95%
Operating temperature	0 °C ~ 55°C (Charging), -25 °C ~ 55°C (Discharging)
Storage temperature	-25°C ~ 50°C
Operating humidity	5% ~ 95%, RH
Weight	3000 ± 50 kg
Dimensions (W*D*H)	1342*1440*2380(mm)
Way of fire protection	Pack level aerosol + Cluster level aerosol + Water spray system
Installation position	Outdoor