

# Mercury 418kWh

Liquid Cooled Energy Storage Integrated System



The **Mercury 418** 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 VPP connectivity, demand-side management, and real-time grid dispatch, optimizing utilization for peak shaving, backup power, and renewable.



## Ultimate Safety (3-Tier Protection)

Engineered with multi-level disconnection and a 3-tier intelligent fire protection system, fully compliant with GB, UL, and IEC standards.



## Smart & Profitable Management

Integrated BMS/EMS enables VPP connectivity, real-time dispatch, and flexible modes for optimized returns.



## Cost-Optimized & Long-Life

Highly integrated design drastically reduces deployment costs. Features LFP cells guaranteeing a system lifespan of up to 15 years.



## Flexible & Fast Deployment

Modular, all-in-one system allows direct low-voltage connection and ensures rapid, easy installation for diverse applications.

## Mercury 418kWh

### DC Parameters

Battery type	Lithium iron phosphate (LFP)
Rated Capacity	418kWh
Cycle Life	8000 cycles @ (0.5P/0.5P, DOD100%, 70% EOL)
Configuration	1P416S
Rated Voltage	1331.2V(25°C±2°C)
Voltage Range	1164.8V~1497.6V
Max Charging Power	0.5P
Max Discharging Power	0.5P

### AC Parameters

Rated Power	125kW
Max Power	137.5kVA
Rated Voltage	400V
Voltage Deviation	-15% ~ +10%
Rated Frequency	50/60Hz
Current THD	< 3% (rated power)
Power Factor	0.99/-1~1
AC Output Type	Three-phase four-wire

### System Parameters

Operating Temperature	0°C~55°C(charging), -25°C~55°C(discharging)
Humidity Range	≤95%,RH
Operating Altitude	<2000m
IP Rating	IP55
Cooling Method	Liquid-cooled
Fire Extinguishing Agent	Aerosol
Dimensions (W×D×H)	1540*1680*2335(mm)
Weight	3800±50kg
Communication	RS485/CAN/ Ethernet
Certification	UN38.3, IEC62619, IEC63056, IEC61000, IEC62477