BEXIE ENERGY

Europe based aftersale
Company HQ in Spain

TECHNICAL DATASHEET

All-in-One Energy Storage System

MERCURY 418 // COMMERCIAL USE // INDUSTRIAL USE

Liquid-cooled all-in-one energy storage system with 418 kWh capacity and 125 kW power, designed for small and medium commercial and industrial applications. It combines Grade A+ LFP cells, multi-layer safety and smart BMS/EMS integration for peak shaving, backup power, renewable integration and real-time grid dispatch through VPP connectivity.



- 418 kWh LFP battery with up to 8,000 cycles.
- 125 kW rated power, three-phase 230/400 V output for direct lowvoltage connection.
- Liquid cooling system for stable cell temperature and long service life.
- Multi-level disconnection and 3-tier intelligent fire protection.
- Smart BMS with 2 A active cell balancing and VPP support.
- IP55 outdoor enclosure and system lifespan of up to 15 years.

FEATURES

SAFE BMS | HIGH CAPACITY | LONG CYCLE LIFE | SMART SCHEDULING

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BEXIE GROUP designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells enable us to produce different types of solar panels with highest efficiency.

TECHNICAL DATASHEET

All-in-One Energy Storage System

MERCURY 418

BEXIE ENERGY

MODEL	MERCURY 418
DC PARAMETERS (BATTERY)	
Battery Type	Lithium iron phosphate (LFP)
Rated Capacity	418kWh
Cycle Life	8,000 cycles @ 0.5P/0.5P, 100% DOD, 70% EOL
Configuration	1P416S
Rated Voltage	1,331.2V (25°C ± 2°C)
Voltage Range	1,164.8V - 1,497.6V
Max. Charging Power	125kW
Max. Discharging Power	125kW
Cell Balancing	Active, 2A
AC PARAMETERS	
Rated Power	125kW
Max. Apparent Power	137.5kVA
Rated Voltage	230V / 400V
Voltage Deviation	-15% ~ +10%
Rated Frequency	50Hz / 60Hz
Current THD	<3% @rated power
Power Factor	1 (leading) ~ 1 (lagging)
AC Output Type	Three-phase four-wire
GENERAL	
Operating Temperature Range	0°C ~ 55°C (charging), -25°C ~ 55°C (discharging)
Relative Humidity	≤ 95% RH
Max. Operation Altitude	< 2,000m
Ingress Protection Degree	IP55
Cooling Method	Liquid Cooling
Fire Extinguishing Agent	Aerosol
Dimensions (WxDxH)	1,540mm x 1,680mm x 2,335mm
Weight	4,050kg ± 50kg
COMMUNICATION	
Communication Interfaces	RS485 / CAN / Ethernet
CERTIFICATION	
Standards	UN38.3, IEC 62619, IEC 63056, IEC 61000, IEC 62477

NOTES

Remarks: · Cycle life and capacity values refer to the specified test conditions. · Installation and commissioning must be carried out by qualified personnel. · Specifications are subject to change without advance notice.