CEEC ENERGY CHINA

MERCURY MAX

5MWh LIQUID COOLED ENERGY STORAGE SYSTEM

MERCURY MAX is a grid-adaptable, safety-centred energy storage system designed for complex applications such as grid-forming, black start, and off-grid operation. With compact, modular architecture, MERCURY MAX enables lower installation and operating costs while ensuring rapid deployment across diverse environments.

Certified to UL, IEC, AS and UN standards, MERCURY MAX integrates advanced thermal control and multi-layer protection to deliver reliable performance and long-term safety in utility-scale and distributed projects.

PRODUCT FEATURE

FLEXIBLE SYSTEM APPLICATIONS

- Supports grid-forming, black start, and off-grid operations.
- Compatible with industrial sites, complex grids, islanded systems and hybrid renewables.

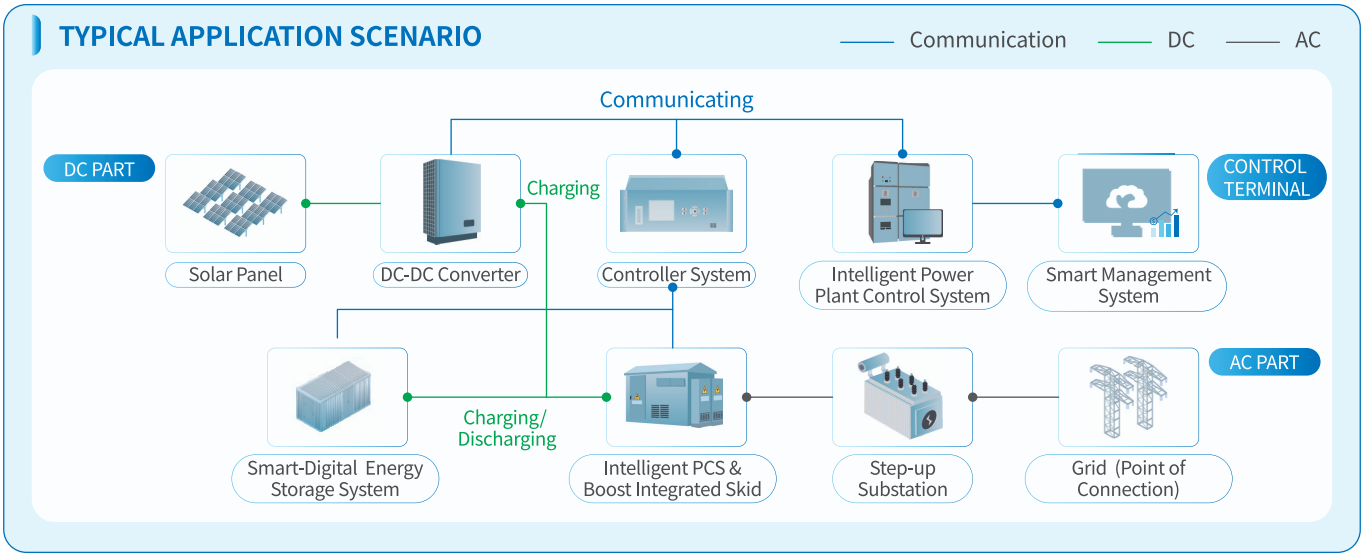
COST-EFFICIENT

- Integrated design reduces system costs and simplifies deployment.
- Optimised for rapid installation and space-constrained sites.

RELIABLE & SERVICEABLE

- Modular layout enables efficient maintenance and fault isolation.
- Robust safety systems ensure stable operation in varied environments.

TYPICAL APPLICATION SCENARIO



PARAMETER

DC CONFIGURATION	Cell Type	LFP 3.2V / 314Ah
	Battery Configuration	416S12P
	Nominal Capacity	5.015MWh
	Nominal Voltage Range	1164.8 ~ 1500V
	DC Side System Efficiency	＞95%
	Rate Duration of Discharge	2h / 4h
ELECTRICAL PARAMETER	Nominal AC Power	5000kVA
	Max.THD of Current	<3% (Nominal Power)
	Nominal AC Voltage	690V
	AC Voltage Range	621V ~ 759V
	Power Factor	>0.99 (Nominal Power)
	Adjustable Range of Reactive Power	1.0 lagging ~ 1.0 leading
	Nominal Frequency	50Hz / 60Hz
STRUCTURE	Dimension	2438mm*2896mm*6058mm
	Weight	~ 42t
	IP Rating	IP55
	Anti-Corrosion Degree	C4 / C5 (Optional)
OPERATION PARAMETER	Operation Ambient Temperature Range	-30°C ~ +50°C (＞45°C Derating)
	Operation Humidity Range	0 ~ 95%
	Maximum Operation Altitude	5000m
COMMU-NICATION	Communication Interfaces	CAN, RS485, RJ45
	Temperature Control Method	High-efficiency Liquid Cooling
REGULATORY	Standard	IEC 62619, IEC 63056, IEC 62477-1, IEC 62040-1, IEC/UL 60730-1, UL 9540A, UN 38.3, UN 3536
	Fire Suppression System	Combustible Gas Detector, Smoke Sensor, Temperature Senor, Pack Aerosol / Perfluorohexanone, Waterfire Protection, Gas Extinguishing Controller