

EffiSync X Series

3.5MWh & 5MWh & 6.25MWh Liquid-cooled Lithium-ion Energy Storage System



INTRODUCTION

The EffiSync Series liquid-cooled energy storage system, built on a 1,500V voltage platform, features high safety, high output, precise management, and high integration.

Its container product EffiSync X – 5MWh & 6.25MWh (high-voltage box solution, DC output), with a rated charge-discharge rate of 0.25P–0.5P, can be applied in energy storage scenarios on the power generation side, grid side, distribution side, and user side, and is used for peak regulation, renewable energy consumption promotion, power quality improvement, peak shaving and valley filling, and comprehensive energy management.

SYSTEM FEATURES



Reduced investment,
increased capacity
and enhanced
efficiency



Unattended operation
& intelligent operation
and maintenance



Multi-level protection
for safety and
reliability



Precise control and
intelligent
management

STANDARD SYSTEM PARAMETERS

Product Model	EffiSync X-5MWh	EffiSync X-6.25MWh	EffiSync X-3.5MWh
Cell Specification	314Ah	587Ah	285Ah
Configuration	1P104S×4×12	1P104S×4×8	1P48S×8×10
Discharge Rate	0.25/0.5P		1P
Nominal Capacity	5015.9kWh	6251.3kWh	3502.08kWh
System Rated Voltage	1331.2V		1228.8V
System Voltage Range	1164.8V–1497.6V		1075.2V–1382.4V
DC-side Efficiency	94%		94%
System Cycle Life	≥8000, 0.5C@25°C 70%EOL		≥6000, 1C@25°C 70%EOL
IP Rating	IP55		IP55
Corrosion-proof Grade	C3 ⁽¹⁾		C3 ⁽¹⁾
Cabinet Dimensions (L×W×H)	6058mm*2438mm*2896mm		6058mm*2438mm*2896mm
Weight	42T	48T	35T
Auxiliary Power Supply	External power supply		External power supply
Operating Humidity Range	≤95%		≤95%
Operating Temperature Range	-35°C–55°C ⁽²⁾		-35°C–55°C ⁽²⁾
Maximum Operating Altitude	≤2000m		≤2000m
Cooling Method	Intelligent variable-frequency liquid cooling	Intelligent variable-frequency liquid cooling	
Fire Protection System	Smoke and heat detectors, combustible gas detectors, pressure-relief windows (explosion venting panels optional), perfluorohexanone (aerosol optional); with provisions for water fire protection access		
Communication Interfaces	LAN, RS485		
Communication Protocols	Modbus TCP, Modbus RTU		
Certification Standards	IEC62619, IEC61000, IEC60730, IEC63050, IEC62477, UL9540A, NFPA 855, UN38.3, UN3536, GB/T 36276, GB44240		

Note:

(1) The corrosion protection rating can be customized to meet the standards of different countries/regions.

(2) Derating is required when the temperature exceeds 45°C.

LAYOUT OF THE PRODUCT

