

EffiSync X Series

7MWh+ 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 - 7MWh+ (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



Multi-level protection for
safety and reliability



Precise control and
intelligent management



Free selection for
flexibility and efficiency

STANDARD SYSTEM PARAMETERS

Product Model	EffiSync X-7MWh	EffiSync X-7.8MWh
Cell Specification	587Ah	587Ah
Configuration	1P104S×4×9	1P104S×4×10
Discharge Rate	0.25/0.5P	
Nominal Capacity	7032.7kWh	7814.1kWh
System Rated Voltage	1331.2V	
System Voltage Range	1164.8V–1497.6V	
Efficiency	94%	
System Cycle Life	≥8000, 0.5C@25°C 70%EOL	
IP Rating	IP55	
Corrosion-proof Grade	C3 ⁽¹⁾	
Cabinet Dimensions (L×W×H)	6600mm*2438mm*3100mm	6600mm*2438mm*3300mm
Weight	54T	59T
Auxiliary Power Supply	External power supply	
Operating Humidity Range	≤95%	
Operating Temperature Range	-35°C–55°C ⁽²⁾	
Maximum Operating Altitude	≤2000m	
Cooling Method	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

