Utility Battery Storage System
3.44MWh/5.0MWh

SUNNYGROW

BESS-CTN-W3.44MWH

BESS-CTN-W5.0MWH

Safety&Reliability

- Lithium iron phosphate battery, higher energy density and longer cycle life;

- Multi-level BMS management system, multi-sampling point coverage with real-time data feedback, more safe and intelligent operation management.

Operational Assurance

- Industrial-grade intelligent air conditioner & functional unit compartment design ensure the best operating temperature of battery cells to prolong the life span;

- Thermal management system links with battery management system for real-time and precise temperature control, keeping the temperature difference between the cells ≤ 5°C.

Convenient Installation

- Easy and convenient installation for battery cluster, plug and play;

- IP54 protection and C3 anti-corrosion grade, easily cope with harsh outdoor environments.

Easy Operation and Maintence

- Double-door design in front of container, fast maintenance for core components;

- Multi-standard cabinet types to meet demands of a variety of application scenarios.

Data Sheet

Model	BESS-CTN-W3.44MWH	BESS-CTN-W5.0MWH
Battery Data		
Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
Battery Cell	3.2V/280Ah	3.2V/280Ah
Battery Cell Combination	9P416S	14P400S
Nominal Capacity	3.44MWh	5.017MWh
Rated DC Voltage	1228.8V	1280V
DC Voltage Range	960~1401.6V	1000~1460V
Charge/Discharge Rate	≤ 0.5C	≤ 0.5C
DOD	90%	90%
Battery Cooling	Air Cooling	Air Cooling
General Data		
Dimensions (WxDxH) mm	9900x2438x2896	13716x2438x2896
Weight	35t	45t
Protection Level	IP54	IP54
Anti-corrosion Grade	C3	C3
Installation Location	Outdoor	Outdoor
Operation Temperature Range	-20℃ ~ 55℃	-20℃ ~ 55℃
Storage Temperature Range	0℃ ~ 35℃	0℃ ~ 35℃
Relative Humidity	5% ~ 95%	5% ~ 95%
Altitude	≤2000m(>2000m Derating)	≤2000m(>2000m Derating)
Battery Temperature Control	Industrial-grade temperature controlled air conditioner	
Fire Fighting System	Heptafluoropropane + Water fire extinguishing system	
Communication Protocol	CAN/MODBUS	CAN/MODBUS
Communication Interface	CAN2.0, RS485,Ethernet	CAN2.0, RS485,Ethernet