

# Air-cooled Utility ESS

## 3.44MWh/5.0MWh

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.



### 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.



### 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  $\leq 5^{\circ}\text{C}$ .



### Easy Operation and Maintenance

- 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.



Model	BESS-CTN-W3.44MWH	BESS-CTN-W5.0MWH
<b>Battery Data</b>		
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	1017.6~1401.6V	1060~1460V
Charge/Discharge Rate	≤ 0.5C	≤ 0.5C
DOD	95%	95%
Battery Cooling	Air Cooling	Air Cooling
<b>General Data</b>		
Dimensions (WxDxH) mm	10500x2438x2896	13716x2438x2896
Weight	45t	55t
Protection Level	IP54	IP54
Anti-corrosion Grade	C4	C4
Installation Location	Outdoor	Outdoor
Operation Temperature Range	-20℃ ~ 55℃	-20℃ ~ 55℃
Storage Temperature Range	-30℃ ~ 35℃	-30℃ ~ 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

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