

QBESS-T



Utility-Scale ESS

The Utility-Scale ESS consists of photovoltaic modules, energy storage battery systems, bidirectional converters, grid-connected inverters, box-type substations, and other equipment. Once connected, the generated DC power is converted from DC to AC via grid-connected inverters, is boosted, and then connected to the grid. For the irregular and intermittent output of photovoltaic or wind power generation, electrochemical energy storage systems have the advantage of faster response, smaller size, and longer lifespan compared to other energy storage systems, and are better at smoothing power output and managing energy flow.

QBESS T

Liquid Cooling
ESS Container

0.5P/1P Optional

Usable for frequency regulation
Applicable in multiple scenarios

CATL LFP Cell

285Ah Cycle Life ≥9,000
306Ah Cycle Life ≥10,000

Ultra Safety

Multiple Fire Protection
Real-Time Insulation Monitoring

1.9MWh ~ 4MWh Available

Liquid cooling system + long life time LFP cell and multiple protection.

Outstanding Performance

RTE≥93%
AC Available Capacity≥94%

Intelligent O&M

BMS & Cloud Platform Available

Product Specifications

Utility-Scale ESS QBESS-T



PRODUCT MODEL	QBESS-T-285	QBESS-T-306
Battery Type	LFP	
Battery Model	285Ah	306Ah
Max. Energy Capacity	3793kWh	4073kWh
Energy Capacity	379.3kWh×N (5≤N≤10)	407.3kWh×N (5≤N≤10)
Voltage Range	1164.8 ~ 1497.6Vdc	
Max. Charging&Discharging Power	3793kW	2000kW
P-rate	1P	0.5P
Cooling Method	Liquid Cooling	
Ingress Protection	IP55	
System Dimensions (W×D×H)	6058 ×2438×2896mm	
Weight	≈35T	
DC Channel	2/N	1/2/N
Certifications	UN 38.3, UN 3536, UL 1973, UL 9540A, IEC 62619, IEC 61000-6-2/-4, IEC 62477-1, IEC 62933-5-2, IEC 63056, IEC 60730-1	
GENERAL SPECIFICATIONS		
Operating Temperature Range	-25 ~ 55 °C (>45°C derating)	
Relative Humidity Range	0 ~ 95% (No Condensation)	
Max. Working Altitude	4000m (>2000m derating)	
Fire Safety Equipment	Heat detectors, Aerosol, Smoke detectors, Flammable gas detector, Exhausting system, Dry pipe (optional)	