Integrated Liquid-cooled Energy Storage System



Product Introduction

The integrated liquid-cooled energy storage system adopts the All-In-One design concept, integrating the power supply and distribution system, power conversion system, battery system, EMS system, temperature control system, fire protection system and so on. This system can be widely applied in scenarios such as industrial and commercial parks, charging and discharging stations, and distributed photovoltaic power stations.

Product Features



Intelligent and Efficient

- The maximum efficiency of PCS ≥ 99%, and the system round-trip efficiency (RTE) ≥ 91%.
- Large-area cooling and balanced heat dissipation, supporting 1P charging and discharging applications.
- Intelligent optimal energy dispatch strategy to enhance system revenue.



Flexible Configuration

- The integrated system design and transportation reduce the workload of on-site debugging.
- Multiple machines can be seamlessly paralleled side by side, back to back.



Safe and Reliable

- Al-based pre-diagnosis of battery cell faults helps to reduce the risk of thermal runaway.
- Three-level over-current protection at the pack level, cluster level, and PCS level is provided.
- A four-level fire safety design enables timely fire control and management.

Dintelligent Operation & Maintenance

- Remote desktop operation and maintenance, as well as cloud-based intelligent operation and maintenance are available.
- Digital and intelligent management of the entire data life cycle is carried out.

Classification		ICB120K241D	ICB218K218D
Battery Side Parameters	Cell Type	LFP (314Ah)	LFP (285Ah)
	PACK Configuration	48kWh	43.5kWh
	Battery Configuration	1P240S	
	Rated Cacity	241kWh	
	Voltage Range	672V~876V	
	Charge and Discharge Ratio	≤0.5P	≤1P
	Depth of Discharge	95%DOD	
	Cooling Method	liquid cooled	
AC Side Parameters	Maximum Power	125kW	218kW(MPPT selective)
	Rated grid voltage	380V/400V	
	Rated grid frequency	50/60Hz	
	THD (rated power)	<3%	
	Cooling Method	Air cooled	
System Parameters	Combined cycle efficiency	≥91%	
	Protection level	IP55	
	Noises	\leq 70dB, low noise version \leq 60dB	
	Operation Temperature Range	-30~+50°C	
	Altitude of non- degradation	3000m	
	Communication Interface	Ethernet/WIFI/4G	
	Parallel Function	Maximum 9 units	
	Certification Standards	T34120, T36276, T34131, EN50549, CEI 0-16, NTS V2.1, UNE217001, UNE217002, RfG, NA/EEA-NE7-CH, VDE-AR-N 4110	
	Other Options	Grid-connected cabinet, and off-grid switching cabinet	
	System Dimensions (W x D x H)	1100mm*1350mm*2400mm	
	Weight	≤2700kg	≤2800kg
	Fire Fighting Methods	Active warning/PACK level immersion/water spray/aerosol	