



Container-type Energy Storage System

The system integrates a PCS, battery packs, isolation transformer, cooling, fire protection, power distribution, environmental monitoring, and energy management. It features excellent grid compatibility, accepts grid dispatch for active and reactive power compensation, and supports various applications such as peak shaving & valley filling, demand-side response, and auxiliary renewable energy integration. With an IP54 protection rating, it is built to withstand harsh outdoor environments, perfectly meeting commercial and industrial energy storage needs.

Product Features

Versatile Functionality

Supports key functions including peak shaving & valley filling, demand-side response, and backup power; enables remote updates for operational strategies and firmware upgrades, reducing O&M costs.

Highly Integrated

A fully productized system integrating battery packs, PCS & power distribution, thermal management & fire protection, water leakage & door contact sensors, and monitoring & communications for comprehensive operational oversight and risk control; enables one-stop delivery, shortening on-site installation and commissioning cycles.

Flexible & Convenient

Modular PCS design allows for linear expansion of battery units and bi-directional inverter units; features multi-bank independent charge/discharge control capability, enhancing battery utilization and safety.

Safe & Intelligent

Implements a graded fault handling mechanism to respond to predefined fault scenarios; utilizes a customized BMS providing comprehensive measurement and protection functions; supports cloud-based dispatch and operational report analysis.

Product Parameters

Model	DC500(1MWh)-A	DC500(1MWh)-L	DC1000(2MWh)-A	DC1000(2MWh)-L
System Parameters				
Rated/Max. AC Power	500 / 550 kW	500 / 550 kW	1000 / 1100 kW	1000 / 1100 kW
Rated AC Voltage	400Vac, 3W+PE / 3W+N+PE			
Rated AC Current	720 A	720 A	1440 A	1440 A
Total Current Harmonic Distortion (THD)	< 3% (at rated power)			
Power Factor	-1 (leading) ~ +1 (lagging)			
Battery Rated Capacity	253 kWh * 4	261 kWh * 4	253 kWh * 8	261 kWh * 8
Battery Voltage Range	705.6 ~ 907.2 V	728 ~ 936 V	705.6 ~ 907.2 V	728 ~ 936 V
Battery String Configuration	4P * 18S * 14S	4P * 52S * 5S	8P * 18S * 14S	8P * 52S * 5S
Compatible Battery	LFP			
Cell Capacity	3.2V / 314 Ah			
PCS Type	Modular, High-Efficiency Three-Level			
Protection	Overtemperature, Low-Temp Charging, Overcurrent, Short Circuit, Overvoltage, Undervoltage, DC Bus Protection, etc.			
Grid/Off-grid Switching	STS seamless switching (Optional)		STS switching (Optional)	
Isolation Transformer	Included (Optional)			
Operating Modes	Grid-connected Peak Shaving & Valley Filling / Off-grid Power Supply Backup			
PV Side Parameters				
PV Open-Circuit Voltage Range	250 ~ 685 V	250 ~ 708 V	250 ~ 685 V	250 ~ 708 V
PV Input Power	500 kW	500 kW	1000 kW	1000 kW
MPPT Number	10	10	20	20
General Parameters				
Dimensions (WDH) mm	6058 * 2438 * 2591 mm	6058 * 2438 * 2896 mm	Electrical: 6058 * 2438 * 2591 mm(G) / 6058 * 2438 * 2896 mm(H)	
Weight (Approx.)	19 t	21 t	32 t	33 t
Protection Level	IP54			
Ambient Temperature	-25 ~ 60°C (Derating above 45°C)			
Relative Humidity	0 ~ 95% (Non-condensing)			
Altitude	3000 m (Derating above 2000 m)			
Fire Extinguishing System	Perfluorohexanone / HFC-227ea Piped Fire Suppression System			
Battery Compartment Cooling	AC Cooling	Independent Temp Control, Liquid Cooling	AC Cooling	Independent Temp Control, Liquid Cooling
Electrical Compartment Cooling	Intelligent Forced Air Cooling			
Communication Interface	RS485, Ethernet / Modbus RTU, Modbus TCP			
Certifications	IEC 62619, UN38.3, UL 1973, CE			