

OUTDOOR CABINET ENERGY STORAGE SYSTEM



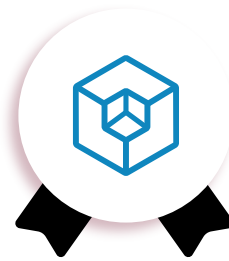
Highly Integrated

The system has been productized, incorporating various components including energy storage batteries, PCS (Power Conversion System), distribution, temperature control, fire prevention, water-immersed door magnets, and monitoring communication. This comprehensive integration enables effective control over the system's operational status and minimizes associated risks.



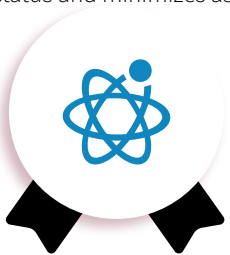
Excellent Protection

Patented outdoor cabinet protection design, optimized heat dissipation channels, protection against dust, rain, and sand; front and rear double-door maintenance, suitable for on-site installation of multiple sets of systems side by side, reducing footprint.



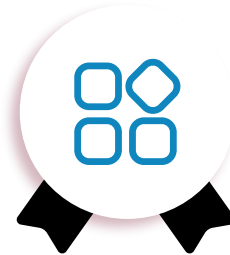
Space-saving

By employing door-mounted integrated air conditioning, it doesn't take up space within the cabinet. This improves the available cabinet space, enhances the integrity of the top structure, and ensures better waterproofing.



Flexible Parallel Operation

Equipped with patented technology for virtual synchronous machines, it can achieve multiple units' long-distance parallel operation without communication lines, as well as parallel and off-grid switching functions.



Versatile Functionality

The system features a standardized structural design and menu-based function configuration. It can be equipped with various components including photovoltaic charging modules, parallel and off-grid switching modules, power frequency transformers, and other elements tailored for scenarios like micro-grids. These components are seamlessly integrated into a solar energy storage system cabinet.



Intelligent Management

The local control panel can achieve various functions such as system operation monitoring, energy management strategy formulation, remote equipment upgrades, and more.

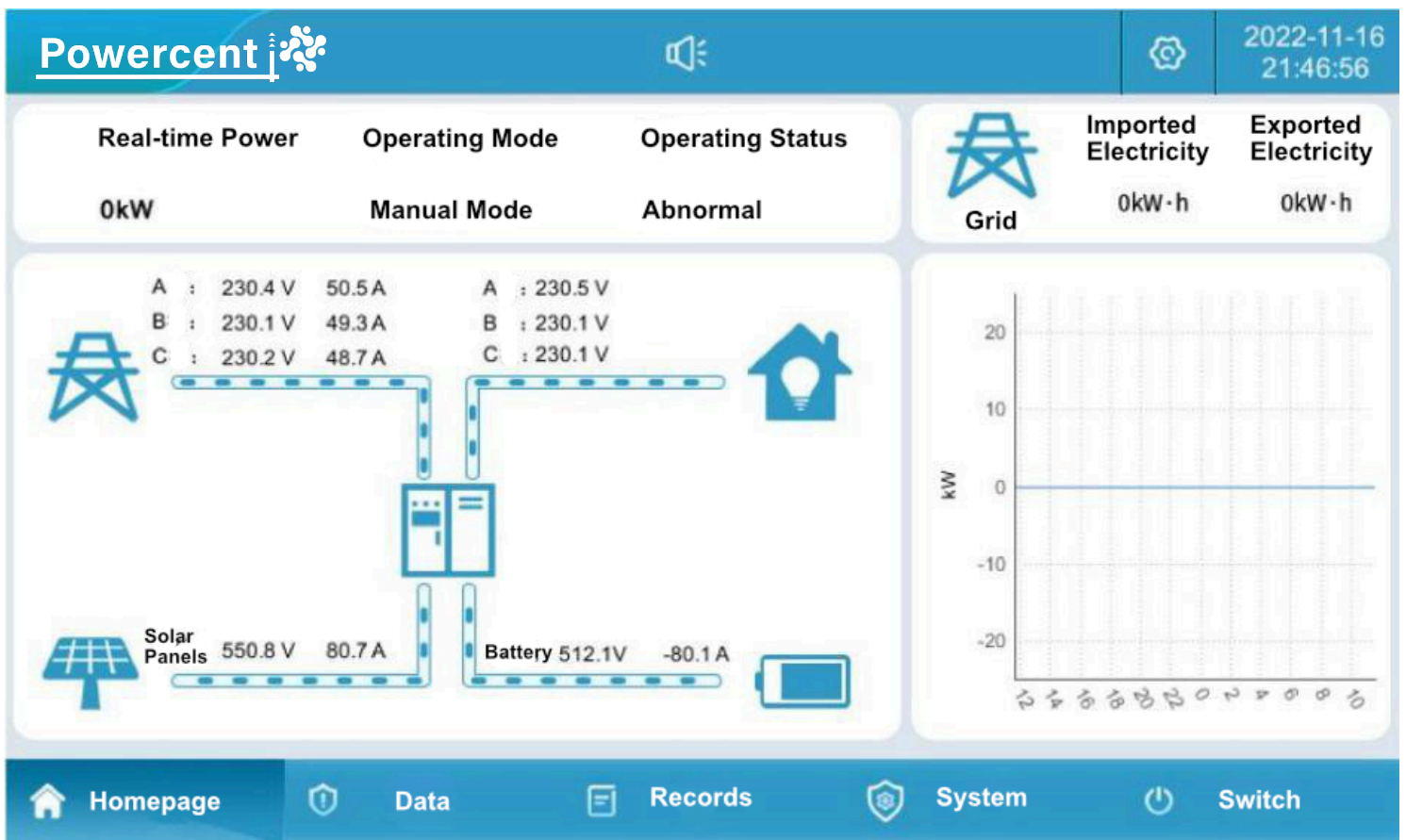
MONITORING PLATFORM

MONITORING
AND
OPTIMIZING
YOUR
ENERGY
24/7

AI
Algorithm

Home Page

Users can conveniently execute various operation commands through the LCD display interface. This interface allows them to easily view parameters and data related to direct current (DC), alternating current (AC), and the system. It also provides real-time information about current equipment status and alarms, offering a reliable basis for fault diagnosis.



PRODUCT PARAMETERS SHEET

Note

The following models represent typical configurations, but they can also be outfitted with additional components such as photovoltaic charging modules, parallel and off-grid switching modules, power frequency transformers, and other elements tailored for scenarios like micro-grids. These components seamlessly integrate into an all-in-one solar energy storage system cabinet.

Model	PC-50TS(DC50)(83kWh)	PC-50TS(DC50)(100kWh)
Battery Rated Energy Storage Capacity	83kWh	100kWh
System Rated Voltage	691.2V	844.8V
System Voltage Range	500-950V	739.2V-950.4V
Battery Type	Lithium Iron Phosphate Battery	
Battery Series-Parallel Connection Method	1P*24S*9S	1P*24S*11S
Maximum Charge/Discharge Current	120A	
Rated AC Power	50kW	
Rated AC Current	72A	
Rated AC Voltage	400V, 3W+N+PE/3W+PE	
Rated Efficiency	50/60HZ	
Total Harmonic Distortion of Current (THDI)	<3% (Rated Power)	
Power Factor	-1 Leading ~ +1 Lagging	
Total Harmonic Distortion of Voltage (THDU)	<3% (Linear Load)	
Protection Level	IP54	
IP Rating	I	
Isolation Method	Transformer Isolation	
Standby Power Consumption	<100W (excluding transformer)	
Display	Touch LCD Touch Screen	
Relative Humidity	0~95%(non-condensing)	
Noise	Less than 78dB	
Operating Temperature	-25-60°C	
Cooling	Intelligent Air Cooling	
Altitude	3000m	
BMS Communication	CAN	
EMS Communication	Modbus_TCP	
Dimensions (W*D*H)	1400*1000*2300mm	1850*1000*2300mm
Weight (Approx.)	1750kg	2100kg