

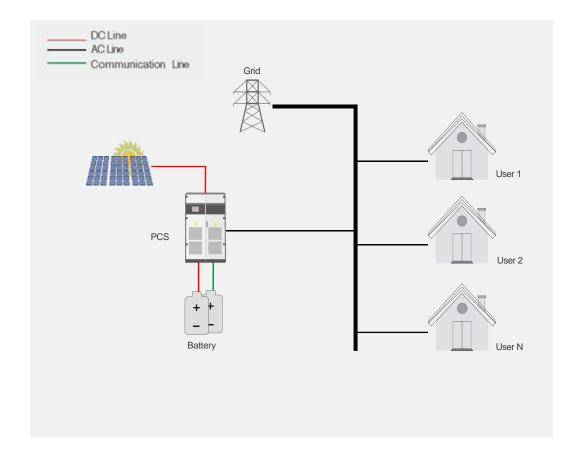




SINGLE LINE DIAGRAM



Solar Power Solution



- Unified construction, centralized power supply, shared by the whole village
- Unified maintenance to solve the problem of difficult operation and maintenance of residents
- Flexible allocation of capacity to solve the problem of spending a lot of money on laying power grid
- Photovoltaic combined with energy storage can also use electricity at night.

Remote areas will gradually realize shared energy storage(PV+ESS). Unified power supply and maintenance, safer use of electricity. Solve the problem of no electricity available, while saving a lot of the cost of laying the grid.





SYSTEM SOLUTION



Backup power solution/Solar power solution/Microgrid solution

CO100K-215E power solution

CO100K-215E power solution					
Item	Model	Specification	Qty.	Picture	
Hybrid inverter/PCS	SP100H	100kW Integrated Photovoltaic Storage 400VAC 50Hz 1. Maximum PV input power 60kW; 2. Built-in EMS energy management system; 3. Including STS on/off switch.	1pcs		
Battery bank	ES768-280	7768V 280Ah LiFePO4 Battery pack,including high voltage box, bus copper bar, each battery with 40g fire extinguishing module	1pcs		



Backup power solution/Solar power solution/Microgrid solution

CO100K-215E power solution

Item	Model	Specification	Qty.	Picture
Industrial and commercial energy storage cabinet	/	 Outdoor cabinet (install PCS and power distribution& lithium batteries); Including AC precision cabinet air conditioning; Includingpower distribution circuit breaker and SPD Plastic-case circuit breaker; Including external display; Including smoke alarms, access control alarms, and water leakage alarms. Including fire module; External alarm indicator and emergency switch; 	1pcs	



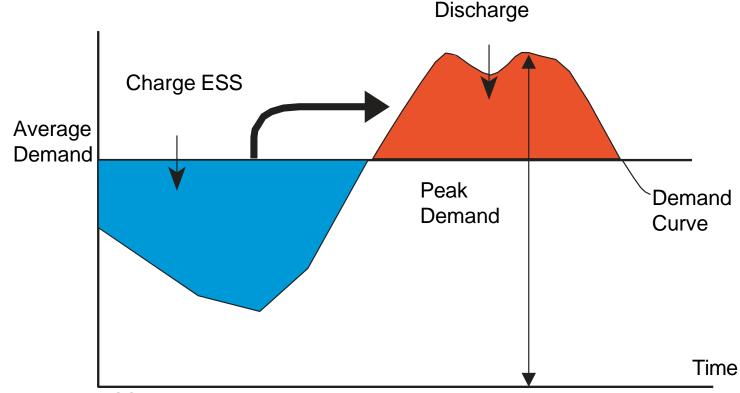


WORK MODE



Peak-shaving/ Load shifting

Use of Energy Storage Systems for Peak Shaving



ESS = energy storage system.

Route 1

- 1. Set a maximum of 20 time periods
- 2. Set the charge and discharge power

Route 2

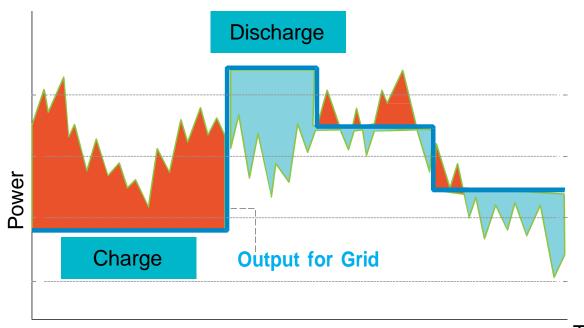
- With EMS, develop automatic tracking strategy
- The system charges the battery during low load periods and discharges during peak load periods

Replacing/delaying transformer upgrades



Profit from electricity price difference

Use of Energy Storage Systems for Load Leveling



Route

- Set a maximum of 20 time periods
- Setting discharge during high electricity prices
- Setting up charging at low electricity prices
- Set charging and discharging power

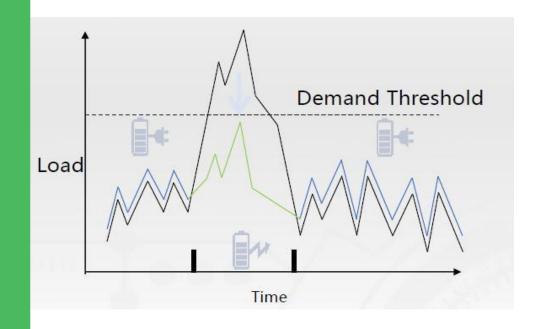
When prices are low, the grid is used to charge the battery, and when prices are high, the battery's power is sold to the grid

Peak valley price arbitrage

Time



Demand Charge Management



Route

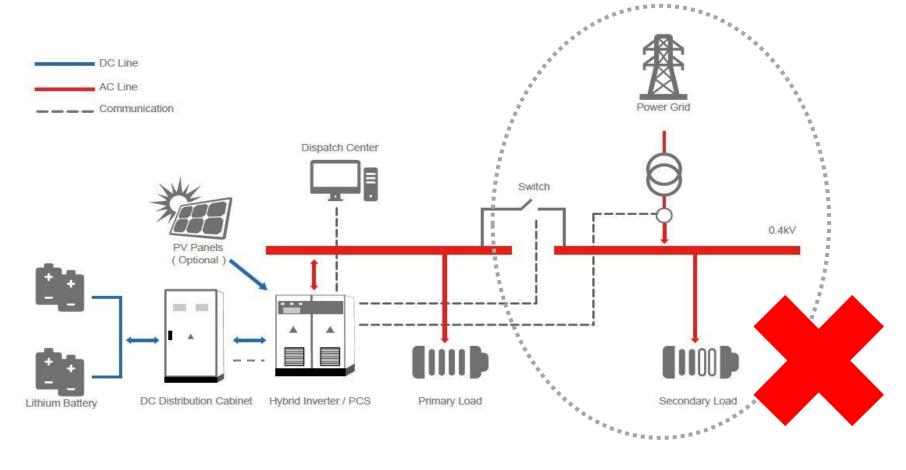
- Smart meters read power from the grid
- PCS limiting grid power
- Battery discharge, reducing peak value

EMS customizes a dynamic real-time response control strategy, adjusts energy storage charging and discharging, and operates completely autonomously

Save on basic electricity bill



Backup power



When the mains power failure, the important load can still work normally

Ensure that important loads are not powered off





PRODUCT SPECIFICATION

Hybrid inverter/PCS



NO	ltems	Specifications				
Product specification						
1	AC output power	100KW				
2	Rated voltage	400VAC				
3	Frequency	50/60Hz				
4	AC connection	3W+N+PE				
5	Overload capacity	150%				
6	Max.DC voltage	950V				
7	Max.DC power	110KW				
8	DC voltage range for nominal power	600-900V				
9	Mac Ac current	160A				
10	Max. Ac power	125KW				
11	Dimension	720*220*440mm				
12	Weight	48kg				

SP100H microgrid energy storage inverter is a high-efficiency, high-protection energy storage inverter developed mainly for medium and large energy storage microgrids. It supports multiple units in parallel operation, supports diesel engine hybrid operation, and supports on-grid and off-grid mode.

Battery cluster

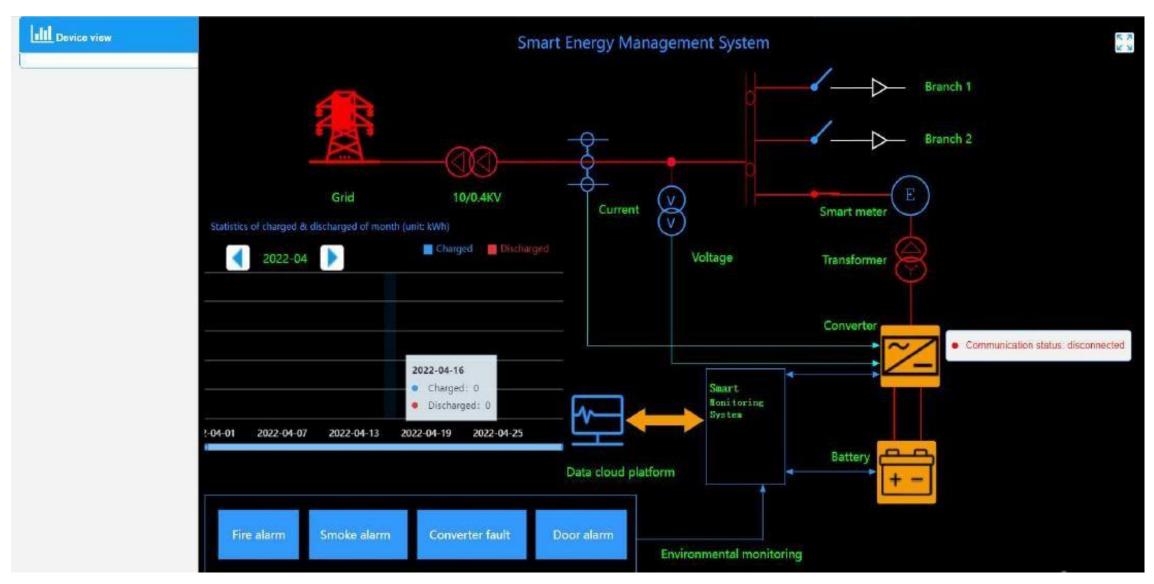


NO	Items	Specifications	
1	rated voltage	768V	
2	Battery cluster voltage range	672 V ~ 864V	
3	Nominal capacity of battery cluster	280AH	
4	Design discharge rate	0.71C	
10	operating temperature range	0~60°C	
11	humidity	0-70%	

BCU can collect the voltage, current and temperature of each battery module, perform overvoltage, undervoltage and overcurrent protection functions, and receive the battery cell information uploaded by BMU to BCU.

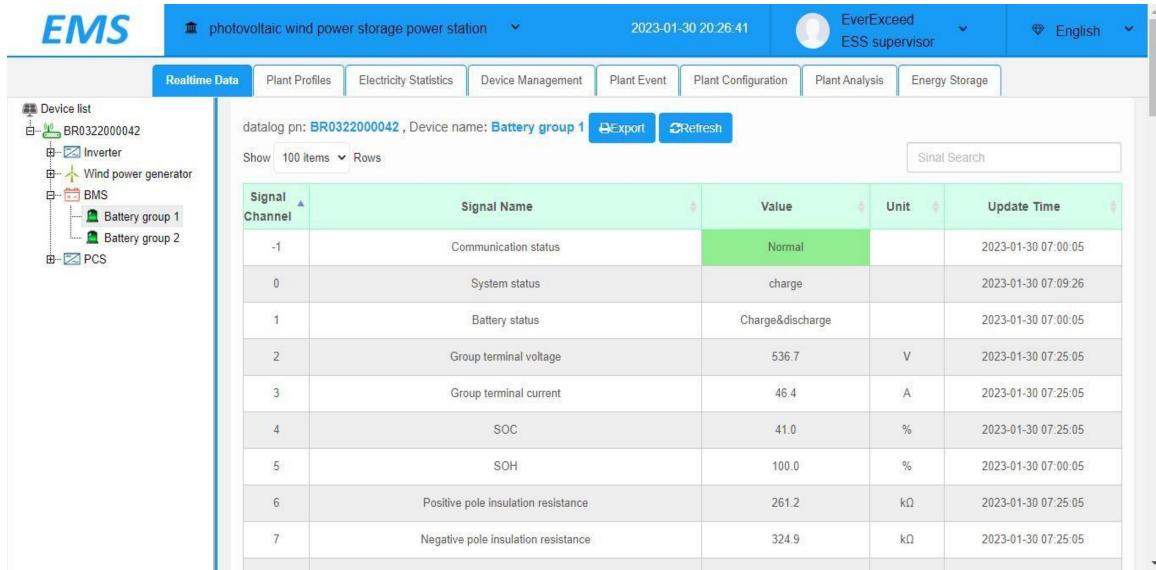


Energy Management System



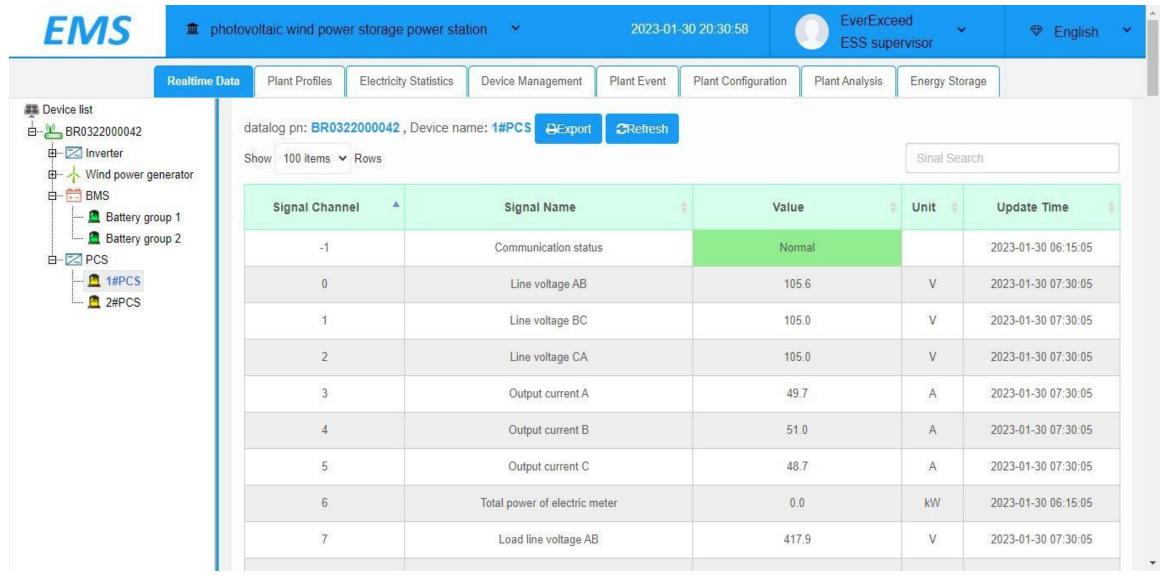


🔀 Energy Management System





🔀 Energy Management System





Integrated solution

Highly integrated PCS, Battery, EMS and all accessories, it can be expanded PV input.

Easy to use

Multiple working modes programmable, seamless conversion from grid connection to grid, minimizing solar energy waste

Safe and reliable

Comprehensive protections to protect inverter as well as battery, high quality output power.

Smart O&M

Modbus and CAN protocol for remote monitoring and management.

Wide output power range & huge energy storage

Output Power: 30kW~500kWEnergy Storage Capacity: 50kWh~1MWh

Flexible

The system is flexible and can be deeply customized, and any unit can be increased or decreased.



High-quality after-sales service



20 years of system integration experience



Air-conditioning

Fire Fighting syste

Smoke sensor

Switchboard

Preferential price











REFERENCE CASES



30kw-100kwh

30kw-100kwh

50kw-150kwh









50kw-200kwh

500kw-1000kwh

250kw-1000kwh









Welcome to consultation

THANKYOU