



100kW/200.7kWh

Photovoltaic And Energy Storage Integrated Cabinet

Photovoltaic and energy storage integration

- Supports the integration of photovoltaic, energy storage batteries, grid, and loads. DC busbar connection with energy conversion that is economical and efficient.

Flexible arrangement

- Modular design for the entire cabinet, easy to install and maintain; DC/DC, DC/AC, and STS modules can be freely combined to suit different needs.

Safe and reliable

- Core modules such as DC/DC, DC/AC, and STS are certified by GB and CE standards.

Intelligent control

- Features embedded intelligent control functions including peak shaving and valley filling, load tracking and demand control, global monitoring, seamless grid connection and disconnection, and pure off-grid load handling.

DC Parameters

Cell Specifications	3.2V 280Ah
Battery Pack Series/Parallel Configuration	1P16S
Number of Battery Packs	14
Number of Battery Clusters	1
Rated Operating Voltage	716.8V
Operating Voltage Range	627.2~806.4V
Capacity	200.7kWh
Maximum Charge/Discharge Power	0.5C

AC Parameters

Rated Power (kW)	100
Maximum Power (kW)	110
Rated Current (A)	145
Rated Voltage (V)	400
DC Component	≤0.5%
Harmonic Distortion Rate	≤3% (Full load)
Grid Voltage Range (V)	400V(-20% ~ +15%)
Grid Rated Frequency (Hz)	50Hz/60Hz±2.5Hz
Isolation Method	None
Power Factor	-0.99 ~ +0.99
Charge/Discharge Conversion Time	<100ms
Grid Connection/Disconnection Switching Time	<20ms

Photovoltaic Input

Rated Input Voltage (V)	900
Maximum Power (kW)	120
MPPT Voltage Range (V)	200~900
MPPT Full Load Voltage Range (V)	300~900

General Parameters

Protection Level	IP55
Fire Suppression System	Supported
Operating Temperature	-20°C to 50°C
Dimensions (W * D * H mm)	1800 × 1200 × 2000 mm
Weight (kg)	2400 kg
BMS Communication Method	CAN, RS485
PCS Cooling Method	Intelligent air cooling with temperature control
Battery Cooling Method	Air cooling
Altitude	3000m (derating above 2000m)