

Microgrid-Ready All-in-One BESS Cabinet

OES-100/215/PV

The product is an all-in-one microgrid ready battery energy storage system, tightly integrating batteries, BMS, PCS, air conditioning, and fire protection systems. Seamlessly switching between grid and off-grid modes, it allows for flexible configuration of photovoltaics, batteries, diesel generators, and loads. This versatility caters to multi-scenario applications on the user side and supports the establishment of microgrids in off-grid scenarios. Ultimately, it delivers reliable and sustainable green energy to areas without electricity access.

Product Appearance ▼



Features



Integrated Design

Highly integrated all-in-one design, the system is modular and can be expanded using parallel systems for a variety of application scenarios



Flexible and Convenient

Multiple operation modes to choose from, supports simultaneous connections of load, batteries, power grid, diesel generators, and photovoltaics



Green and Efficient

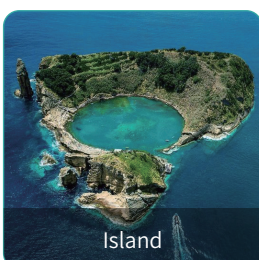
Equipped with a MPPT photovoltaic charge controller making it simple to integrate solar panels to create a renewable source of power generation



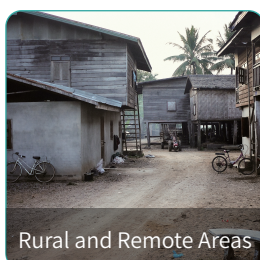
International Certifications

CE certified and meets multiple internationally recognized product standards

Applications



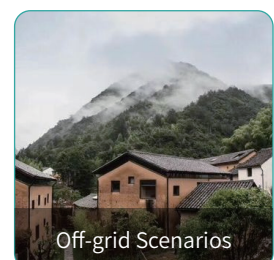
Island



Rural and Remote Areas



Farmlands



Off-grid Scenarios

Product Model	OES-100/215/PV
Inverter	
Rated Output Power	100kVA
AC Voltage Grid Connection	400V-3P4W+PE
Rated Current	145A
AC Frequency	50/60Hz
Power Factor	-0.9~+0.9
THDi	<3%
Charge Discharge Conversion Time	≤100ms
DCDC PV Input(Optional)	
BAT Side DC Voltage	300~900V
Rated Power	100kW
Peak Power	110kW(10min)
MPPT Function	Equipped with 1 Channel
Cooling Method	Forced Air Cooling
Battery	
Cell Type	3.2V/280Ah, LFP
System Battery Configuration	1P240S
System Capacity	215kWh
Working Voltage Range	672~864V
Working Environment Temperature	Charging: 0-55 °C Discharge: -25-55 °C
Cycle Life	>6000Cycles @0.5P, 25+5°C , 70%EOL
Battery Rack Standards	UN38.3 / UL1973 / UL9540A
Battery Cabinet	
Dimensions	W1800*D1300*H2300mm
IP Rating	IP54
Working Environment Temperature	-20 °C~55 °C (Derating Above 45 °C)
Working Altitude	≤2000m
Noise Level	≤70dB
Weight	≤3100kg
System Standards	CE, RoHS, UN38.3

