

120kWh Microgrid Air-cooled ESS



Features

Compact & Flexible

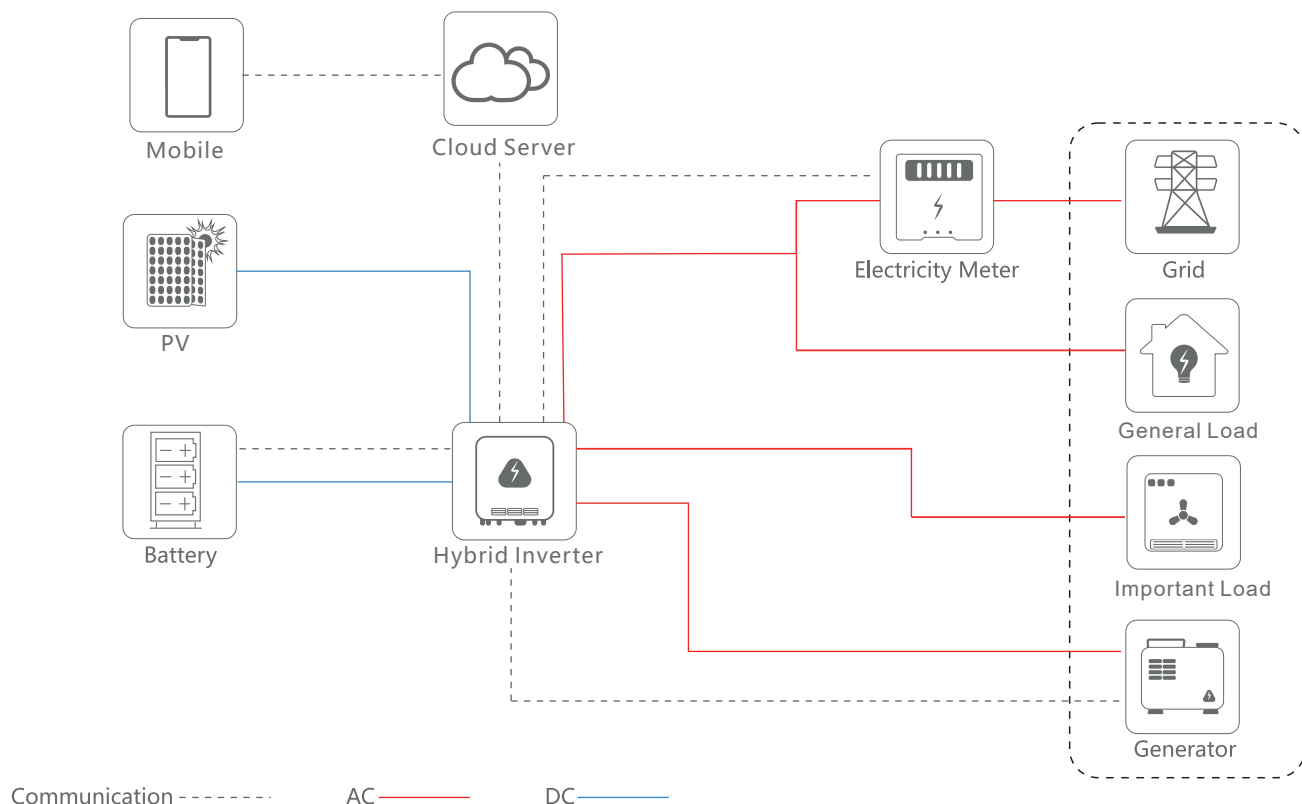
- All-in-One compact design with small footprint
- Compatible with off-grid, on-grid, and microgrid applications

Safe & Reliable

- Smart BMS with real-time monitoring ensures battery system safety
- Smart fire protection actively detects and suppresses thermal runaway

Powerful Performance

- Usable PV power up to 200% of inverter rated power ensures longer backup
- 160% overload capacity for 200ms meets peak load surges



The equipment within the frame does not belong to the energy storage system



IEC 62619

MSDS

UN38.3

Model	BATT-CI-50/120-P
Application	Microgrid
Battery Parameters	
Cell Type	LFP 3.2V/314Ah
Battery Module	20S1P/20.09kWh
System Configuration	120S1P
Rated Voltage	384V
Voltage Range	324~432V
System Energy	120.57kWh
Charge/Discharge Rate	0.5P
Cycle Life	6000
Photovoltaic Parameters	
Max. Input Power	96kW
Operating Voltage Range	150~850V
Max. Input Current	4*60A
Qty. of MPPT/ Max. Input Strings Number	4/8
AC Output Parameters	
Rated Power	50kW
Rated Voltage	400V
Rated Current	72.2A
Operating Frequency	50Hz/60Hz
Power Factor	0.8 Leading~0.8 Lagging
System Parameters	
System Efficiency	91%
Thermal Management	Air-cooled
Fire Protection System	Aerosol
Operating Temperature	-20~+55°C (> 45°C Derating)
Operating Humidity	0~95% (Non-condensing)
Operating Noise	≤75 dB(A)@3 m
Max. Operating Altitude	4000m (> 2000m Derating)
Ingress Protection	IP54
Communication Method	4G,WiFi,RS485
Max. Parallel Units (Off-Grid)	10
Weight	1.4T
Dimensions(W*D*H)	1020*1280*1960mm

Certification Standards

UN38.3,MSDS,IEC 62619,EN 62477,IEC 62933-5-2,EN IEC 61000-6-2/4,G99,
 VDE-AR-N 4105,EN 50549-1/10,VDE 0126/UTE C 15/VFR:2019,C10/11,NRS 097-2-1,
 NTS 631/RD 1699/RD 244/UNE 206006/UNE 206007-1,TOR,EIFS 2018.2,IEC 62116/IEC 61727,
 IEC 60068,IEC 61683,EN 50530,MEA,PEA,PORTARIA Nº 140,DE 21 DE MARÇO DE 2022

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