



IBE - 418A

209kW/418kWh

POTENTIAL FOR
GREATNESS
EXCELLENCE IN
STORAGE

■ Economically efficient

- No Parallel Design on DC Side, 100% DOD
- High Efficiency Liquid Cooling Design
- Conversion Efficiency $\geq 90\%$ on AC Side

■ Ultimate Safety

- High-Temperature-Resistant Material that can Meet 2h Fire Resistance as the Shell.
- Integration of BMS and PCS, Realizing Fast and Comprehensive Protection.

■ Intelligent operation and maintenance

- Multi-parallel Connection, Realizing Flexible Expansion and Block Building of Energy Storage Power Station.
- Statistical Analysis of Big Data, Predicting Battery Cell Lifespan, Warning of Battery Cell Failures.

■ Grid friendly

- Multiple Control Modes including Primary Frequency Control (PFC), Peak Shaving and Valley Filling, and High-Speed Scheduling.
- Heterogeneous Cluster Control Platform, achieving High-Speed Dispatching of Thousands of eBlocks at 100ms level.



SYSTEM DATA

Cell Type	LFP 3.2V/314Ah
Battery grouping method	416S1P
Battery capacity	418kWh
Battery voltage range	1164.8~1497.6V
AC rated power	209kW (215kW Derating)
Maximum system efficiency	≥90%
Depth Of Discharge	100% DOD
Communication interface	LAN
AC current distortion rate	<3%
DC component	< 0.5% pn
Number of cycles	≥10000 Cycles
System protection level	IP55
Working temperature	-35°C~55°C (45°C-55°C derating)
Working humidity	0%RH ~ 95%RH (No condensation)
Noise	< 80db
Altitude	≤2000m
Thermal management methods	Liquid cooling (battery)
Certification	IEC 62619, IEC63056, IEC 62477, IEC 61000 EN 50549, VDE 4110/4120, CEI 0-16, UN 38.3 IEC 62933-5-2, IEEE 1547, UL 9540A, CNS 62619

DC SIDE PARAMETERS

DC voltage range	1026~1500V
DC rated voltage	1263V
Max. DC current	209.5A
Max. DC power	258kW

MECHANICAL PARAMETER

Dimensions (W*H*D)	1400mm*1300mm*2350mm
Total Weight	3800Kg
Installation mode	modular steel structure base

PCS DATA

System rated efficiency	≥98%
Charging and discharging switching time	< 100ms
Communication interface	LAN
Protection grade	IP65
Cooling method	Air cooling
Operation temperature	-40°C~60°C
Relative humidity	0~95%RH
Max. working altitude	≤2000m
Noise	< 80dB
Size (W * D * H)	630*1050*250
Weight	110kg
Certification	IEC 62477, IEC 61000, EN 50549 VDE 4110/4120, CEI 0-16, IEEE 1547

AC SIDE PARAMETERS

AC rated power	215kW
AC rated current	180A
Rated grid voltage	690V (3L/PE)
Low voltage ride through	Yes
High voltage ride through	Yes

