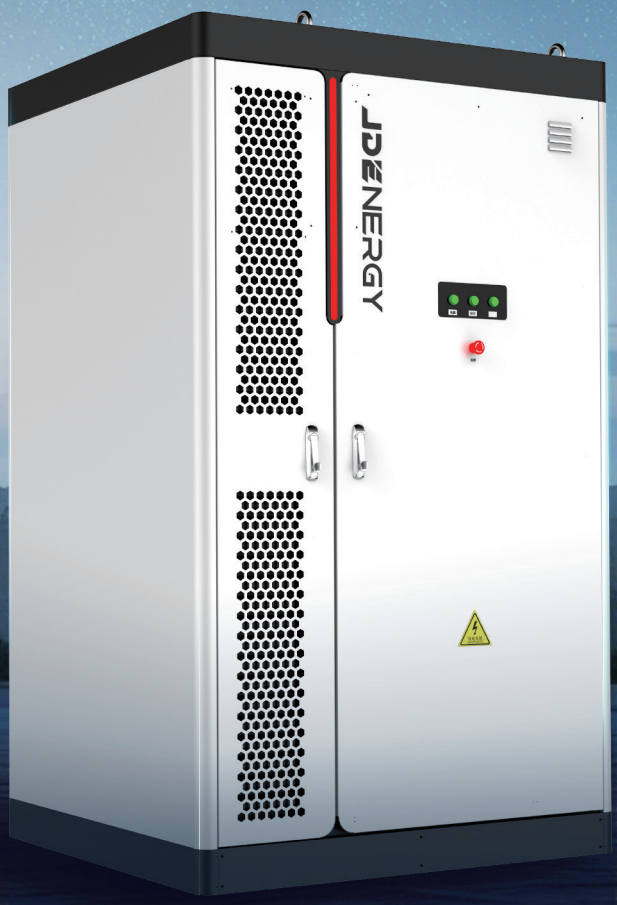
JDENERGY

eBlock 418A

POTENTIAL FOR GREATNESS
EXCELLENCE IN STORAGE



Intelligent energy block eBlock-418A
209kW/418kWh | Energy Storage System

Economically efficient Ultimate safety Grid friendly Intelligent operation and maintenance

eBlock 418A

GRID-SIDE SOLUTION

Economically efficient

- No Parallel Design on DC Side, 100% DOD.
- High Efficiency Liquid Cooling Design.
- Conversion Efficiency ⩾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.

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.

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.

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%Ipn
Number of cycles	⩾7000 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

MECHANICAL PARAMETER

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

PCS DATA PCS/PCS-2000G2

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 (L * W * H)	630*1050*250
Weight	110kg
Certification	IEC 62477 IEC 61000 EN 50549 VDE 4110/ 4120 CEI 0-16

DC SIDE PARAMETERS

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

AC SIDE PARAMETERS

AC rated power	215kW
AC rated current	180A
Rated grid voltage	690V
LVRT/HVRT	Yes
Grid Frequency	50Hz

*JDEnergy reserves the right of final interpretation for all data contained in this specification.(202605 V3.0)

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