



JDENERGY

eBlock 418

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

■ 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.

■ 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	$\geq 90\%$
Depth Of Discharge	100% DOD
communication interface	LAN
AC current distortion rate	<3%
DC component	< 0.5% pn
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	≤ 2000 m
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	$\geq 98\%$
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	≤ 2000 m
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
Low voltage ride through	Yes
High voltage ride through	Yes

*JDEnergy reserves the right of final interpretation for all data contained in this specification.(20251023 V2.0)

Xi'an JDEnergy Co., Ltd.

☎ 029-84845916 / 400-1336580

🌐 www.jdenenergy.com

📍 Headquarters Address: No. 25, West Section of First Biyuan Road, High-tech Zone, Xi' an City, Shaanxi, China