

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

■ 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	$< 0.5\% \text{Ipn}$
Number of cycles	≥ 7000 Cycles
System protection level	IP55
Working temperature	$-35^{\circ}\text{C} \sim 55^{\circ}\text{C}$ ($45^{\circ}\text{C} \sim 55^{\circ}\text{C}$ derating)
Working humidity	0%RH ~ 95%RH (No condensation)
Noise	$< 80\text{db}$
Altitude	$\leq 2000\text{m}$
Thermal management methods	Liquid cooling (battery)
Certification	UL9540 UL9540A FCC Part 15B NFPA69 NEPA855 UL1973 UL1741

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	$< 100\text{ms}$
Communication interface	LAN
Protection grade	IP65
Cooling method	Air cooling
Operation temperature	$-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Relative humidity	0~95%RH
Max. working altitude	$\leq 2000\text{m}$
Noise	$< 80\text{dB}$
Size (L * W * H)	630*1050*250
Weight	110kg
Certification	UL1741 IEEE1547

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	60Hz

*JDEnergy reserves the right of final interpretation for all data contained in this specification. (202608 V3.0)

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