

C&I Energy Storage System

Liquid Cooling ESS (On Grid Application)

E-MATE 200-418-L | 200kW/418kWh



Profit Maximization

One-to-one management for batteries cluster, reduces thermal risks, prevents inter-cluster issues, enhances stability, lowers costs, and adapts to various scales.



Intelligent O&M

One-click management, remote monitoring, fault diagnosis, and seamless grid switching ensure continuous, reliable power with reduced on-site workload.



Comprehensive Safety

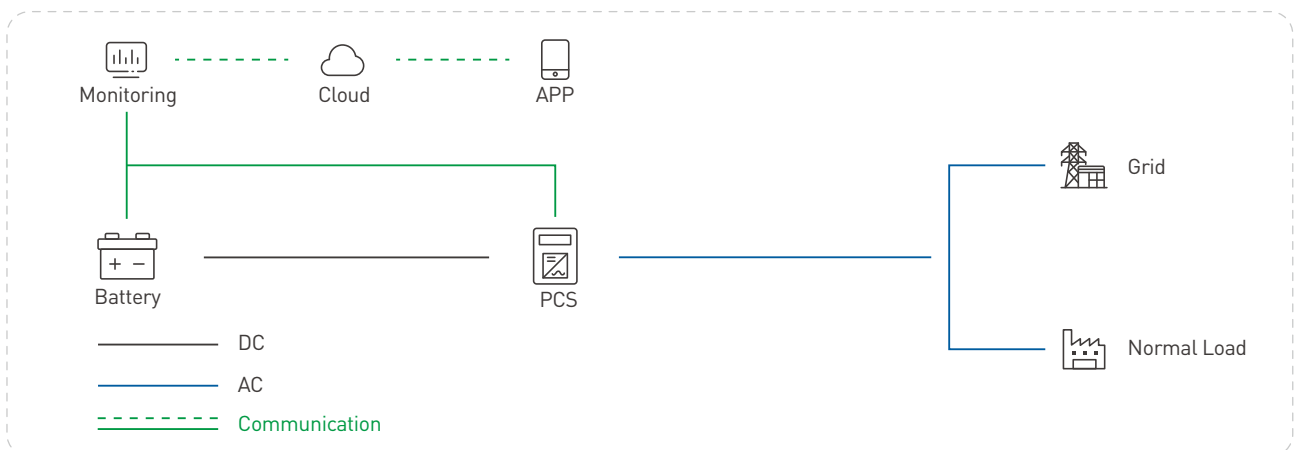
Multi-level warnings (gas/water fire protection, exhaust) ensure safety. Efficient thermal management (temp. diff. $\leq 3^{\circ}\text{C}$, rise $< 7^{\circ}\text{C}$) extends lifespan and ensures stability.



Highly Integrated Design

Front-access, modular, and AC/DC integrated for easy deployment, maintenance, and cost-effective installation.

System Diagram



Datasheet

CE UN38.3 IEC  

Model	E-MATE 200-418-L
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Battery Side Parameters

Cell technology	LFP-3.2 V / 314 Ah
Battery module	52.25 kWh, 166.4 V
Number of packs	8
Battery system rated capacity	418 kWh
Battery system rated voltage	1331.2 V
Battery system voltage range	1040 V - 1497.6 V
Battery system charge/discharge rate	0.5P

AC Side Parameters

Rated output power	200 kW
Rated grid voltage	690V±15%
Maximum output current	184.1 A
Allowable grid voltage range	3W+PE, -15% ~+10% (Settable)
Rated grid frequency	50Hz / 60 Hz
Output THDi	< 3%
Power factor	-1~1
Overload capacity	110% (long term), 120% (1 min)
Charge/discharge switching time	< 100ms
Maximum efficiency	99%

Other Parameters

Dimension (W×D×H)	1500×1450×2350 mm
	59×57×93 inch
Weight	3560 kg (7848.46 lbs)
Operating temperature	-30°C~+55°C (-22°F~+131°F) (Derating below - 15°C or above 45°C)
Relative humidity	0 ~ 95% (No condensation)
Maximum working altitude	3000m (> 2000m Derating)
Noise	≤75dB
Ingress protection rating	Liquid cooling
Heat dissipation method	IP55
Firefighting	Aerosol: module-level + stack-level, water firefighting, combustible gas detection and exhaust
Communication	CAN / RS485 / TCP
Cycle life	8000 cycles (25±2°C, 0.5P/0.5P, 70% SOH)

Standard Compliance

Compliance	UN38.3 / UN3480 / IEC62619 / IEC61000 / IEC62477-1 / CQC (More available upon request)
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