C&I ENERGY STORAGE SYSTEM

E-MATE 257-A

Air Cooling | 144.6 ~ 257.2 kWh

UN38.3 IEC



Features

- Scalable Capacity Up to 257 kWh
- High-Safety LFP System With Multi-Level BMS
- Zero-Maintenance Air Cooling
- Intelligent Cloud Monitoring & Control
- Industrial-Grade IP55 Enclosure
- Rapid Plug-and-Play Deployment

Scenarios



Small and medium-sized industrial and commercial enterprises

Factories, workshops, commercial complexes and office buildings



Outdoor sites

Communication base stations and signal towers, meteorological and environmental monitoring stations, outdoor construction and temporary camps



Remote areas

Islands and mountainous villages, Border guard posts and field workstations



Special emergencies

Emergency disaster relief and rescue, large-scale events and sports event support

EN V3.3 202611. Information is subject to change without notice as products are improved. Copyright © 2026 Shenzhen EENOVANCE Energy Technology Co., Ltd. All rights reserved.

DATASHEET

Model	E-MATE 144-A E-MATE 208-A	E-MATE 160-A E-MATE 225-A	E-MATE 176-A E-MATE 241-A	E-MATE 192-A E-MATE 257-A
Battery Parameters				
Cell technology	LFP ($LiFePO_4$)			
Battery pack	16.0768 kWh, 51.2 V, 112 kg (246.92 lb)			
Number of modules	9	10	11	12
	13	14	15	16
Battery usable energy [1]	144.6912 kWh	160.768 kWh	176.8448 kWh	192.9216 kWh
	208.9984 kWh	225.0752 kWh	241.152 kWh	257.2288 kWh
System nominal voltage	460.8 V	512 V	563.2 V	614.4 V
	665.6 V	716.8 V	768 V	819.2 V
System operating voltage	403.2 ~ 518.4 V	448 ~ 576 V	492.8 ~ 633.6 V	537.6 ~ 691.2 V
	582.4 ~ 748.8 V	627.2 ~ 806.4 V	672 ~ 864 V	716.8 ~ 921.6 V
System Max. charge and discharge current	157 A			
Recommended Depth of Discharge	90 %			
Charge / discharge rate	0.5P			
Other Parameters				
Dimension (W × D × H)	1400 × 1335 × 2373 mm			
	55.12 × 52.56 × 93.43 inch			
Weight	2216 kg (4885.44 lb)	2328 kg (5132.36 lb)	2440 kg (5379.27 lb)	2552 kg (5626.19 lb)
	2664 kg (5873.11 lb)	2776 kg (6120.03 lb)	2888 kg (6366.94 lb)	3000 kg (6613.86 lb)
Operating temperature [2]	Charge: 0 °C to 50 °C (32 °F to 122 °F) Discharge: -20 °C to 50 °C (-4 °F to 122 °F)			
Environmental humidity	≤ 95 % RH (No condensation)			
IP Protection	IP55			
Anti Corrosion Level	C4-M			
Warranty period [3]	5 years / 10 years (Optional)			
Cooling method	Forced-air cooling			
Altitude	≤ 4000 m (above 2,000 m: derating applies)			
Display	LCD Display (battery operating status, SOC, alerts, etc.)			
Communication	CAN / RS485 / Bluetooth + Wi-Fi			
Application	On-grid / On-grid + Backup / Off-Grid			
Compatible inverters	Refer to compatible Hybrid Inverter list			
Cycle life	8,000 cycles (25 ± 2 °C, 0.5P / 0.5P, 70 % SOH)			
FFS	Gas fire fighting (aerosol): cabinet level, water fire fighting, smoke sensing, temperature sensing, pressure relief valve			
Battery Cabinet — Hybrid Inverter Cable Specs	1/0 AWG (Copper Core Power Cable)			
Standard Compliance				
Compliance	UN 38.3 / IEC 62619 / IEC 63056 / IEC61000-6-2 / IEC62477-1			

[1] Test conditions: 100 % depth of discharge (DOD), 0.5C rate charge & discharge at 25 °C.
[2] Charge / discharge derating occurs when the temperature is below 0 °C or above 45 °C.
[3] Please refer to the Warranty Letter for applicable conditions.

SYSTEM DIAGRAM

