

C&I ENERGY STORAGE SYSTEM

E-MATE 128-A

Air Cooling 80.3 ~ 128.6kWh

UN38.3 



Features



Scalable Capacity Up to 128 kWh



Intelligent Air Cooling System



Industrial - Grade IP55 Enclosure



High - Safety LFP System With Multi-Level BMS



Intelligent Cloud Monitoring & Control



Rapid Plug - and-Play Deployment

Scenarios



Mall 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

DATASHEET

Model	E-MATE 80-A	E-MATE 96-A	E-MATE 112-A	E-MATE 128-A
Battery Parameters				
Cell technology	LFP (LiFePO4)			
Battery module	16.0768 kWh, 51.2 V, 112kg (246.92 lbs)			
Number of modules	5	6	7	8
Battery usable energy [1]	80.384kWh	96.4608kWh	112.5376kWh	128.6144kWh
System nominal voltage	256V	307.2V	358.4V	409.6V
System operating voltage	224~288V	268.8~345.6V	313.6~403.2V	358.4~460.8V
System Max. charge and discharge current	157A			
Recommend Depth of Discharge	90%			
Charge / discharge rate	0.5P			
Other Parameters				
Dimension (WxDxH)	780*1257*2373mm			
	30.71 × 49.49 × 93.43 inch			
Weight	1264 kg(2786.64 lbs)	1376 kg(3033.56 lbs)	1488 kg(3280.47 lbs)	1600 kg(3527.39 lbs)
Installation	Floor stand			
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 / 10years (Optional)			
Cooling method	Forced air cooling			
Altitude	≤4000 m(> 2000m Derating)			
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	8000 cycles (25±2°C, 0.5P / 0.5P, 70% SOH)			
Fire Protection System	Gas fire fighting (aerosol): cabinet level, water fire fighting, smoke sensing, temperature sensing, pressure relief valve			
Battery Cabinet — Hybrid Inverter Cable Specs	1/0AWG (Copper Core Power Cable)			

Standard Compliance

Compliance UN38.3/IEC62619/63056/60730/IEC6100-6-2/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

