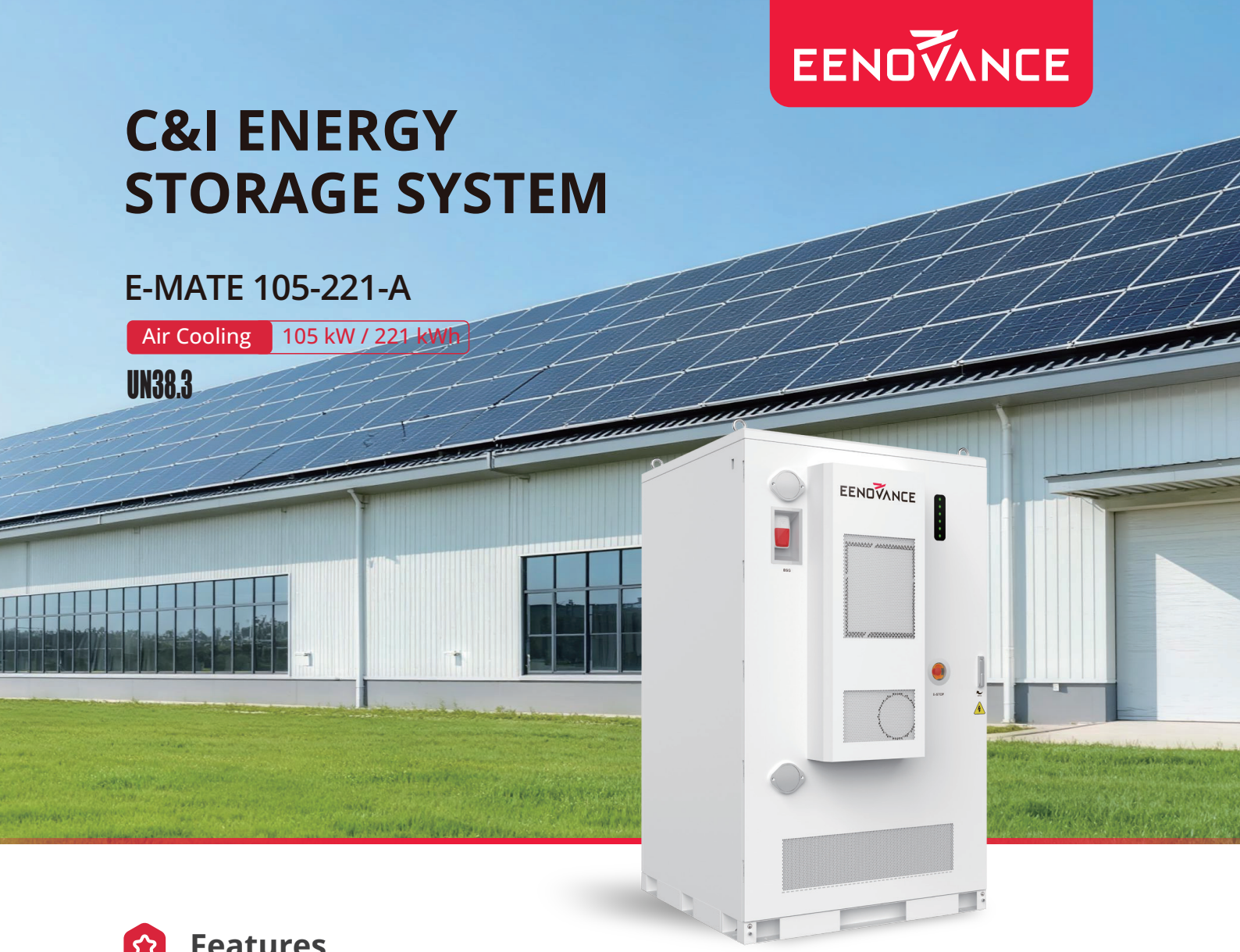
C&I ENERGY STORAGE SYSTEM

E-MATE 105-221-A

Air Cooling | 105 kW / 221 kWh

UN38.3



Features

- Battery + PCS On-Grid Storage System
- 20 kWh Modular-Design Air Cooling Battery
- Used in On-Grid Storage / AC-coupled PV system
- Multi-Level Protection and Alarm (Gas, Water, Ventilation)
- Supports 10 Units in Parallel on the AC Side
- Intelligent EMS, Remote Monitoring and Fault Diagnosis

Scenarios


Industrial Parks


Commercial Parks


Livestock Farms


Farms


Manufacturing Bases

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 105-221-A
Battery Parameters	
Cell technology	LFP-3.2 V / 314 Ah
Battery pack	20.096 kWh, 64 V
Number of packs	11
Rated capacity	221.056 kWh
Rated voltage	704 V
Rated current	157 A
Voltage range	616 V ~ 792 V
Charge / discharge rate	0.5P
AC Side Parameters (optional)	
PCS Brands	ENJOY
Rated output power	105 kW
Rated grid voltage	400 V
Rated output current	167 A
Allowable grid voltage range	340 V ~ 440 V
Rated grid frequency	50 Hz / 60 Hz
Output THDi	< 3 %
Power factor	-1 ~ 1
AC output format	3W+PE+N
Overload capacity	110 % (long-term), 120 % (1 min)
Charge / discharge switching time	< 100 ms
Maximum efficiency	98.5 %
Other Parameters	
Dimension (W × D × H)	1380 × 1540 × 2330 mm
	54 × 61 × 91.7 inch
Weight	2750 kg (6062.71 lb)
Operating temperature	−20 °C to +50 °C (-4 °F to +122 °F) (Derating below −15 °C or above 45 °C)
Relative humidity	0 % to 95 % (No condensation)
Maximum working altitude	≤ 4000 m (> 2000 m Derating)
Noise	≤ 75 dB
IP Rating	IP55
Cooling method	Forced-air cooling
FFS	Aerosol: stack-level, water firefighting, combustible gas detection and exhaust
Communication	CAN / RS485 / TCP
Cycle life	8,000 cycles (25 ± 2 °C, 0.5P / 0.5P, 70 % SOH)
Rated Wiring Specification per Phase	2/0 AWG (Copper Core Power Cable)
Battery Cabinet — Hybrid Inverter Cable Specs	1/0 AWG (Copper Core Power Cable)
Standard Compliance	
Compliance	UN 38.3

SYSTEM DIAGRAM

