MatrixOne IC418-US-480

Outdoor All-in-one 150kW, 418kWh BESS cabinet with IP66/IP55 protection level, inbuilt PCS and liquid-cooling lithium-ion battery. Suitable for factory, industrial park, office, malls etc. to do peak-shaving and load-shifting. Integrated with black-start function.

Features

- Parallel up to 6 units
- Comprehensive protection
- Black start function
- IP66/IP55 protection
- 100% three-phase unbalanced load
- AI-driven revenue optimization
- All-in-one BESS cabinet
- Distributed PV integration solution
- Liquid-cooling battery ensure long lifespan



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Battery specification	
Cell type	LFP/314
Pack configuration	52.2kWh/1P52S
System configuration	418kWh/1P416S
Rated capacity	314Ah
Rated voltage	1331.2V
Voltage range	1164.8~1497.6V
Rated charge/discharge	157A(0.5C)

PCS specification	
Rated output power	150kW
Rated AC voltage	480V
AC voltage range	432V-528V
Grid type	3W+PE
Rated frequency	50/60Hz
PF	0.99/ -1 ~ +1
THDI	≤3%

General information	
Dimensions (W*D*H)	1400*1450*2400 mm
Weight	3900kg
Max. round trip efficiency	92%
Cycle life	≥8000 cycles
Communication	MODBUS TCP/IP or RTU
HMI	Optional
Fire suppression system	Aerosol
Ingress rating	IP66(Battery compartment)/ IP55
Cooling	Liquid cooling for battery +Forced air cooling for PCS
Operating temperature	-25℃~55℃ (Derating after 45℃)
Anti-corrosion rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤75 dB
Altitude	3000m (Derating above 2000m)