

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 10 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



MatrixOne IC418-US-480**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°C~55°C (Derating after 45°C)
Anti-corrosion rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤75 dB
Altitude	3000m (Derating above 2000m)