MatrixOne IC261-400S

Outdoor All-in-one 125kW, 261kWh 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 STS, can acheive on/off grid switch within 10ms.



Features

- Parallel up to 6 units
- Comprehensive protection
- Built-in STS
- 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 IC261-400S
Battery specification	
Cell type	LFP/314
Pack configuration	52.2kWh/1P52S
System configuration	261kWh/1P260S
Rated capacity	314Ah
Rated voltage	832V
Voltage range	728~936V
Rated charge/discharge	157A(0.5C)
PCS specification (on-grid)	
Apparent power	125kVA
Rated power	125kW
Rated voltage	220/380Vac,230/400Vac
Rated current	181A
Voltage range	196-253Vac/340-440Vac
Rated frequency	50/60Hz
Frequency range	45~55/55~65Hz
THDI	<3%
PF	0.8 lagging~0.8 leading
AC connection	3L/N/PE
Max. AC input power	187.5kW
PCS specification (off-grid)	
Apparent power	125kVA
Rated power	125kW
Rated voltage	400V
Rated current	181A
THDU	≤2% linear
Rated frequency	50/60Hz
Overload capability	1.1times (long-term) 1.2times (10min)
General information	
Dimensions (W*D*H)	1050*1350*2400 mm
Weight	2700kg
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)
Cell brand	REPT
Certificate	
Safety/EMC	IEC/EN 61000-6-2/4, IEC/EN 62109-1, IEC/EN 62109-2, IEC62933, IEC 62619, IEC 63056, UN 38.3
Grid code	EN50549-1/-10, EN50549-2/-10, VDE-AR-N 4105/4110, NRS 097-2-1, C10/11, PSE:2018-12, IEC62116