

Commercial & industrial storage

SX-CI-AC112

Featured configuration • SX-CI-AC112

Rated energy capacity

112 kWh

Rated output power

50 kW

Rated voltage

358.4 V

Battery pack capacity

16.08 kWh

Models

SX-CI-AC112

Max. cycle rate

0.5 P

Technical specifications

Parameter	SX-CI-AC112
Battery	
Models	SX-CI-AC112
System	
Rated energy capacity	112 kWh
Max. cycle rate	0.5 P
Max. cycle efficiency	90%
Usable energy capacity	100.8 kWh
Dimensions (W × H × D)	1100 × 1300 × 2300 mm
Dimensions (without inverter) (W × H × D)	780 × 1300 × 2300 mm
Weight	1700 kg (Cabinet) + 80 kg (Inverter)
Operating temperature range	-20 ~ +55°C
Storage temperature range	0 ~ +40°C
Operating humidity range	⩽95% (non-condensing)
Max Operating Altitude	3000 m
System temperature control mode	Industrial-grade air-conditioning (Cabinet); Air-cooling (Pack); Intelligent fan-cooling (Inverter)
Fire suppression mode	Default: Aerosol, Explosion relief valve, Fire water inlet Optional: Flammable gas detector, Explosion relief panel, Explosion-proof exhaust fan, Smoke and temperature detectors
Ingress protection	IP55 (Cabinet) + IP65 (Inverter)
Anti-corrosion class (Battery)	C4/C5 (Optional)
Anti-corrosion class (Inverter)	C4
Noise (rated operating condition)	75 dB @ 1 m
Lightning protection	Type II (AC port), Type II (PV&Battery)
Protection mode	Anti-islanding protection, residual current detection, insulation resistance detection, AC overcurrent protection, and AC cable connection protection
Certification standards	Safety EMC Standards:IEC/EN62109-1,IEC/EN62109-2,IEC61000-6-1/2/3/4,Grid Regulation:lEC61727, IEC62116,CEIO-21,EN50549,NRS 097,RD140,UNE217002,OVE-Richt1inie R25,G99,VDE-AR-N4105,UN38.3
Battery	
Cell type	LFP 3.2 V / 314 Ah
Cell cycle life	8000
System battery configuration	1P112S
Rated voltage	358.4 V
Operating voltage range	313.6~403.2 V
Rated DC current	157 A
Number of battery packs	7

Technical specifications

Parameter	SX-CI-AC112
Battery pack capacity	16.08 kWh
Battery pack weight	125 kg
Inverter	
Inverter model	SUN-50K-SG01HP3-EU-BM4
Rated output power	50 kW
Max. apparent output power@On-grid	50 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V
Rating grid frequency	50 Hz / 60 Hz
AC grid frequency range	45 - 55 Hz / 55-65 Hz
Rated output current	75.8 A / 72.5 A
Max. apparent output power@Off-grid	1.5 times of rated power, 10ms
Back-up switch time	< 10ms
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi / THDv (@linear load)	< 3%
Max. usable PV Input Power	65 kW
Recommended max. PV array size	65 kW
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	150 - 850 V
Max. input current	4*36A
Max. short circuit current	4*55A
MPPT number / Max. input strings number	4/8
Communication	CAN, Ethernet, Optional: Wi-Fi, Cellular, LAN Optional: Wi-Fi, Cellular

Notes

UN38.3 and MSDS are not evidence of EU whole-system market access.

The grid-connection standards listed for the SX-CI-AC112 refer to the Deye SUN-50K-SG01HP3-EU-BM4 inverter, not certification of the battery or complete cabinet.

50 kW / 112 kWh air-cooled PV-storage cabinet

Target markets: Europe, Africa, Latin America excluding Brazil, Southeast Asia.

FOB China, or from European stock by volume for European orders.