

IC261-400S



LEADING - EDGE TECHNOLOGY

Overview

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 achieve on/off grid switch within 10ms.

Features

- ▶ **Distributed PV integration solution**
Reduces system investment, saves cabling, reduces losses.
- ▶ **100% three-phase unbalanced load**
Supports 100% three-phase unbalanced load and 110% overload in 10 mins.
- ▶ **Parallel up to 10 units**
Max. 10 units in parallel in off-grid mode, no limit in on-grid mode.
- ▶ **AI-driven revenue optimization**
Supports AI-driven revenue optimization based on dynamic electricity prices.
- ▶ **Comprehensive protection**
Level 3 BMS+module-level fire protection+explosion protection+leakage current detection.
- ▶ **All-in-one BESS cabinet**
Integrate PCS+STS+battery+EMS+fire protection system in one box, footprint only 1.4m².
- ▶ **Built-in STS**
≤10ms switchover time when grid cuts off, seamless switch also functional in peak-shaving mode.
- ▶ **IP66/IP55 protection**
IP55 for outdoor installation (IP66 for battery compartment), C4 anti-corrosion (C5 optional).
- ▶ **Liquid-cooling battery ensure long lifespan**
≥8000 cycles of battery lifespan, cell temperature difference <3°C.

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Datasheet

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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°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)

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