

# 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 1.4m<sup>2</sup>.
- ▶ **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 |