

Industrial Energy Storage System

SmartESS1000

1000kW/2000kWh

Smart ESS 1000 is an All-in-one, Containerized ESS designed for small C&I loads. The system integrates Battery, BMS PCS, HVAC, fire extinguishing system and EMS systems. It can meet the battery storage requirements up to 2026kWh.



Integrated

- Modular Hybrid PCS
- 7.68kWh (1C) Safest LiFePO4 Battery modules
- Intelligent BMS
- Energy Management System and MasterSite Controller
- IP54 outdoor cabinet with fire suppression and HVAC system

Flexible

- Wide Battery DC Voltage Range
- Modular design easy expansion up to 10 units in parallel
- Optimized for both on-grid and off-grid (island mode) applications
- Easy installation and maintenance
- Various applications such as peak shaving, frequency regulation, EV Charging, Solar + Storage, Micro-Grid, self Consumption Optimization

Reliable

- Antiseismic and more than 25 years design life
- Maximum safety utilizing Tier 1 lithium battery cells
- Long lifespan with over 10000 cycles and 15 years design life

Technical Specifications

SmartESS1000 Parameters

System Cabinet

Rated Output Power	1000 kW
Battery Capacity of the ESS	2026 kWh
Battery Configuration	22S12P
Dimensions (WxHxD)	2440 x 2590 x 12190 mm
Weight Including Battery Modules	<40000 Kg
Operating Range / Storage Temperature	-30°C to +55°C / -40°C to +60°C
Operating Humidity Range	0 - 100 %
Maximum Operating Altitude	4000m
IP Degree	IP54, Outdoor
Communication Ports and Protocols	RS485 / CAN / TCP, IP
Cooling Method	Industrial Air Conditioning
DC Lighting Protection	Type II

Battery Pack

Cell Material	LFP
Nominal Capacity	7,68 kWh
Nominal Voltage	25.6 V
Rated Capacity	300A
Maximum Charging/Discharging Current	≤ 1.0 C

Power Conversion System

Rated Output Voltage	230/400 V
Maximum PV Input	1440 kWp
Maximum Current	1444A
Rated Grid Frequency	50/60 Hz
Maximum Efficiency	99.00%

Protections AC Overcurrent Protection, AC Overvoltage Protection, AC Surge Protection, AC Short Circuit Protection, Antiisland Protection, DC Reverse Connection Protection, Straight Surge Protection

Compliances EN 62477 ,EN IEC 61000, G99

Grid Support L/HVRT, Active and Reactive Power Control

Certified CE/TUV

Highlights



HIGH FLEXIBILITY



EASY INSTALLATION



SMART MONITORING



STRONG LOAD ADAPTABILITY