

Commercial Energy Storage System

SmartESS 100

60kW/100kWh

Compact energy storage solution designed for small C&I loads integrating modular hybrid inverters, high efficiency lithium batteries with intelligent BMS, HVAC, fire suppression system and cloud monitoring.



Integrated

- Modular Hybrid PCS
- 6.65kWh (1C) Safest LiFePO4 Battery modules
- Intelligent BMS
- Remote monitoring
- 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

SmartESS60/100 Parameters

System Cabinet

Rated Output Power	63 kW
Battery Capacity of the ESS	99.84 kWh
Battery Configuration	15S1P
Dimensions (WxHxD)	1035 x 2050 x 1280 mm
Weight Including Battery Modules	<1500 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	CAN , Ethernet / CAN, Modbus TCP, IP
Cooling Method	Industrial Air Conditioning
DC Lighting Protection	Type II

Battery Pack

Cell Material	LFP
Nominal Capacity	6.65 kWh
Nominal Voltage	51.2 V
Rated Capacity	130A
Maximum Charging/Discharging Current	≤ 1.0 C

Power Conversion System

Rated Output Voltage	230/400 V
Maximum PV Input	50 kWp
Maximum Current	101A
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
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Compliances	EN 62477, EN IEC 61000
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Grid Support	L/HVRT, Active and Reactive Power Control
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Certified	CE/CQC
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Highlights



HIGH FLEXIBILITY



EASY INSTALLATION



SMART MONITORING



STRONG LOAD ADAPTABILITY