



RESIDENTIAL ESS SOLUTION

SE-F5 Pro



Comprehensive Protection

Advanced BMS with active fuse



Ultra-efficient

Support Max. 1C charge & 1C discharge.



Flexible Expansion

Max. 32 units in parallel



Easy Maintenance

Auto-networking, Local monitoring mode for battery, remote monitoring mode for ESS



Optimized Energy Density

Integrated PACK: reduced line loss, enhanced energy density



Reliable Durability

Operates reliably in -20°C to 55°C , natural cooling

RESIDENTIAL ESS SOLUTION



Model

SE-F5 Pro

Main Parameters

Battery Chemistry

Capacity

Scalability ^[1]

Nominal Voltage

Operating Voltage

Nominal Energy

Charge Current ^[2]

Max. Continuous

Peak

Discharge Current ^[2]

Max. Continuous

Peak

Other Parameter

Recommend Depth of Discharge

Dimension (W × H × D) (Without hanging board)

Weight Approximate

LED Indicator

IP Rating of Enclosure

Operating Temperature

Storage Temperature

Relative Humidity

Altitude

Cycle Life

Installation

Communication

Warranty Period ^[3]

Energy Throughput ^[3]

Certification

LiFePO₄

100 Ah

Max. 32 pcs in parallel

51.2 V

44.8 V ~ 57.6 V

5.12 kWh

100 A

150 A (120 sec)

100 A

150 A (120 sec)

90% DoD

404 × 547 × 141 mm

44 kg

LED (SOC, working, protecting) & Buzzer

IP21

Charge: 0°C~55°C Discharge: -20°C~55°C

0~35°C

95% (non-condensing)

≤3000m

≥6000(25°C±2°C,70%EOL)

Wall-Mounted, Floor-Mounted, Stack-Mounted

CAN2.0, RS485, Optional module, (WiFi+Bluetooth+APP)

10 years

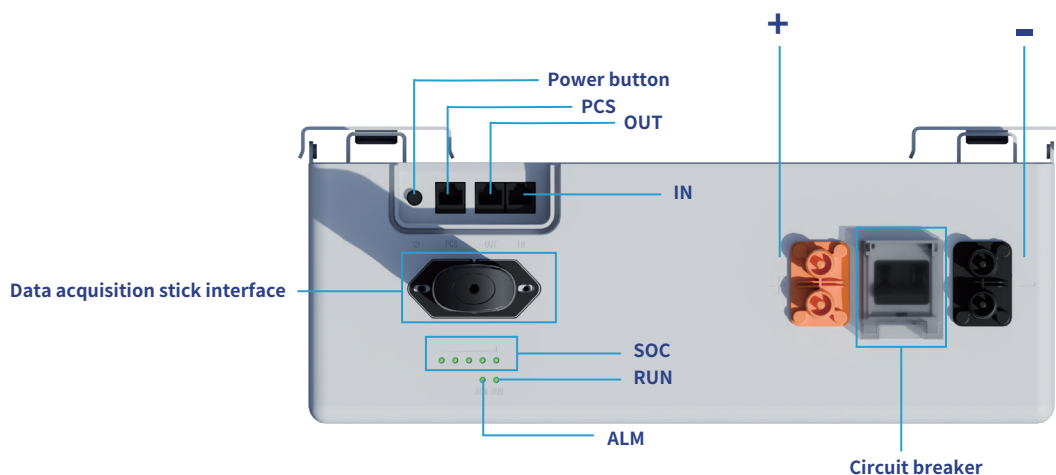
16 MWh

UN38.3, MSDS, CE, CB, VDE2510-50, FCC, UL1973, UL9540A, CEC

[1] Max. 64 pcs can parallel with CAN-Box.

[2] Operating current is affected by temperature and SOC. This max. continuous current is only supported in lithium battery mode; for lead-acid mode, please refer to the manual for the max. continuous current.

[3] Conditions apply, refer to Deye Warranty Letter.



- ◎ -: Battery negative terminal connection position(Quickly plug and unplug).
- ◎ +: Battery positive terminal connection position(Quickly plug and unplug).
- ◎ SOC: These 5 LEDs are used to display the pack SOC and charge or discharge state.
- ◎ RUN light: green LED lighting to show the battery running status.
- ◎ ALM light: red LED lighting to show the battery has been alarmed .
- ◎ Power button: Power on or off the control battery.
- ◎ PCS: Inverter communication terminal:(RJ45port) follow the CAN protocol (baud rate:500kbps),and RS485(baud rate:9600bps),used to output battery information to the inverter.
- ◎ OUT: parallel Communication Terminal:(RJ45port) Connect "IN"Terminal of Next battery,for Communication between multiple parallel batteries.
- ◎ IN: parallel Communication Terminal: (RJ45 port) Connect "OUT" Terminal of Previous battery,for Communication between multiple parallel batteries.
- ◎ Circuit breaker: Used to manually control the connection between the battery rack and external devices.
- ◎ Data acquisition stick interface: The location to connect with your Data Logger that is used for data acquisition via WIFI or Bluetooth.

Mounting example

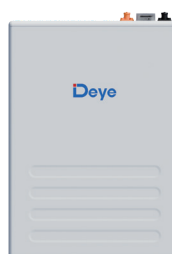
Stacked

Support 6 packs in one cluster parallel connected, allows multiple clusters in parallel

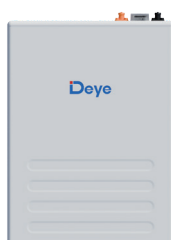


Wall mounted

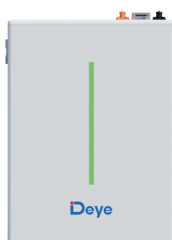
All support wall mounted installation, and support for multiple packs in parallel



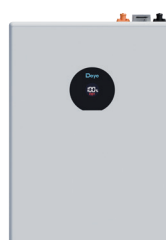
SE-F5 Pro Model Selection and Appearance Reference



Config Version: L



Config Version: E



Config Version: C

Deye APP



Bluetooth APP Monitoring



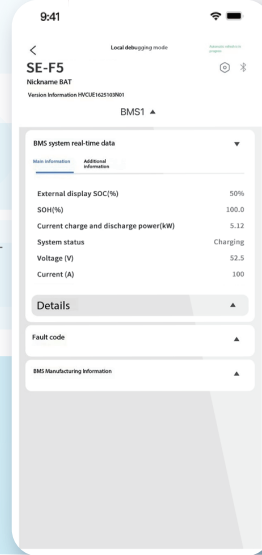
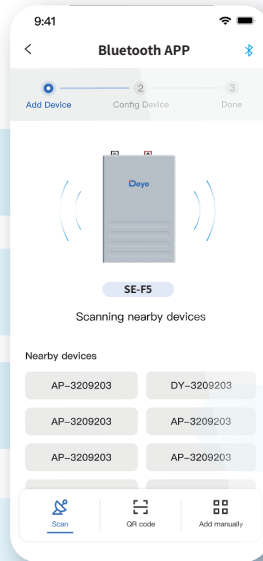
Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



Quick Pairing



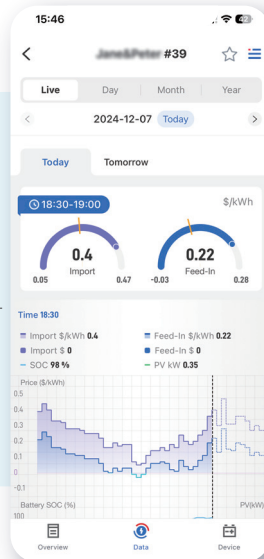
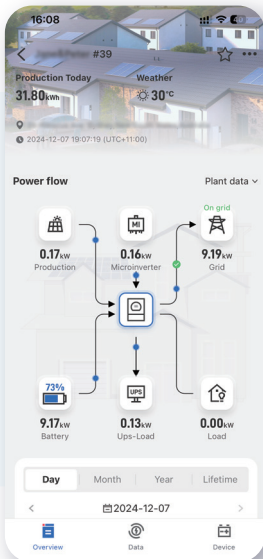
No Internet Needed



Portable Control



Remote monitoring mode for ESS(Deye Inverter&Battery)



Real-time Equipment Monitoring



Intelligent Charging/Discharging Strategies



AI Data Analytics



Customized Maintenance

Smarten Up Your Home Energy



Download Deye APP to join us!

Embrace a seamless, effortless energy experience that's both ecofriendly and budget-friendly with our intelligent assistant



Deye ESS / Deye New Energy



www.deyeess.com / www.deyeinverter.com