Common version

LED strip version

Display screen version

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℃ to 55℃, natural cooling

RESIDENTIAL ESS SOLUTION

Model	SE-F5 Pro	
Main Parameters		
Battery Chemistry	LiFePO$_4$	
Capacity	100 Ah	
Scalability [1]	Max. 32 pcs in parallel	
Nominal Voltage	51.2 V	
Operating Voltage	44.8 V ~ 57.6 V	
Nominal Energy	5.12 kWh	
Charge Current [2]	Max. Continuous	100 A
	Peak	150 A (120 sec)
Discharge Current [2]	Max. Continuous	100 A
	Peak	150 A (120 sec)
Other Parameter		
Recommend Depth of Discharge	90% DoD	
Dimension (W × H × D) (Without hanging board)	404 × 547 × 141 mm	
Weight Approximate	44 kg	
LED Indicator	LED (SOC, working, protecting) & Buzzer	
IP Rating of Enclosure	IP21	
Operating Temperature	Charge: 0℃～55℃ Discharge: -20℃～55℃	
Storage Temperature	0～35℃	
Relative Humidity	95% (non-condensing)	
Altitude	≤3000m	
Cycle Life	≥6000(25℃±2℃,70%EOL)	
Installation	Wall-Mounted, Floor-Mounted, Stack-Mounted	
Communication	CAN2.0, RS485, Optional module, (WiFi+Bluetooth+APP)	
Warranty Period [3]	10 years	
Energy Throughput [3]	16 MWh	
Certification	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.

Model   SE-F5 Pro
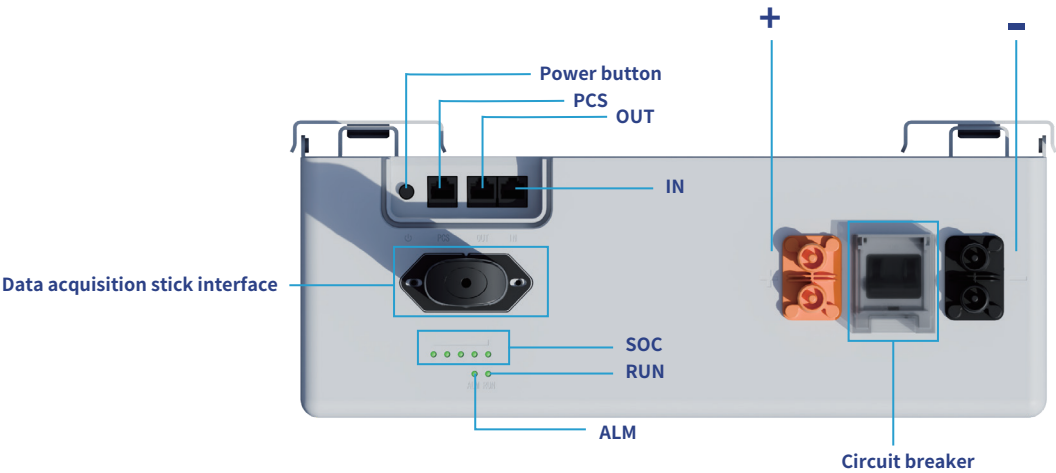
◎ -: Battery negative terminal connection position(Quickly plug and unplug).

◎ +: 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

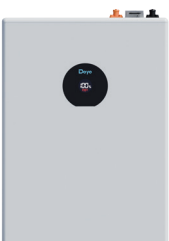All support wall mounted installation, and support for multiple packs in parallel

SE-F5 Pro Model Selection and Appearance Reference

Config Version: L   **Config Version: E**   **Config Version: C**
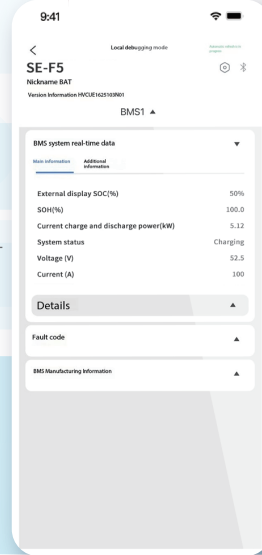
Deye APP

Local monitoring mode for battery

- Bluetooth APP Monitoring
- Low Power (Bluetooth LE)
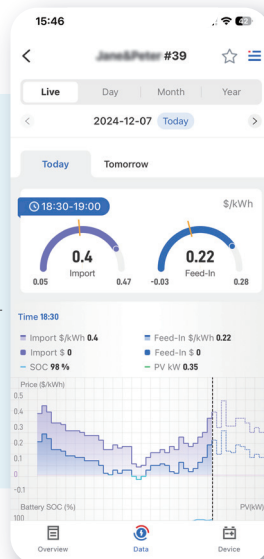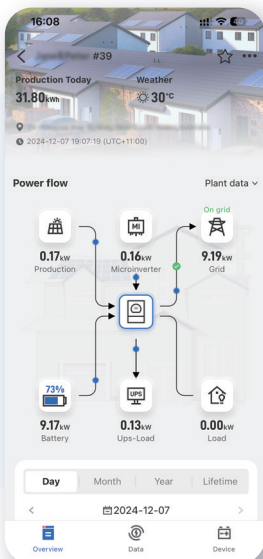- Automated upgrade

- 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