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

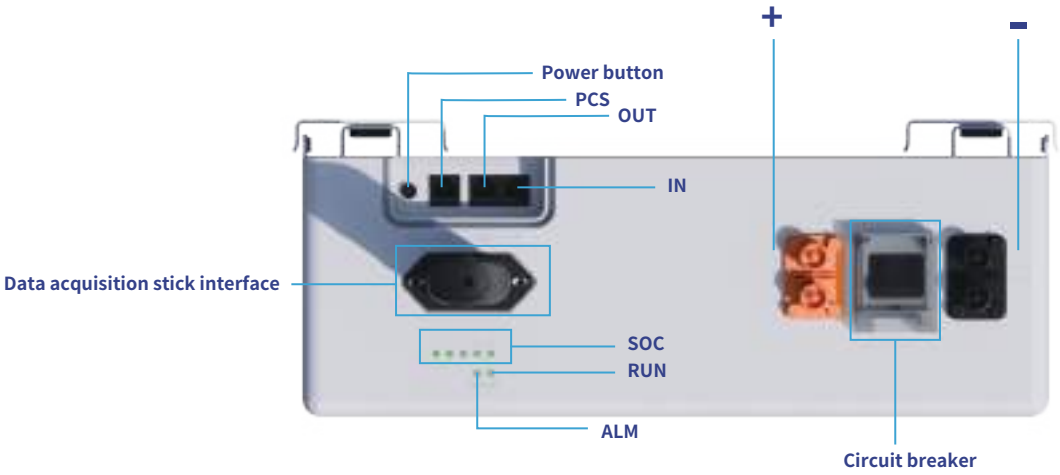
Model		SE-F5 Pro
Main Parameters		
Battery Chemistry		$LiFePO_4$
Capacity		100 Ah
Scalability [1]		Max. 32 pcs in parallel
Nominal Voltage		51.2 V
Operating Voltage		44.8 V ~ 57.6 V
Nominal Energy		5.12 kWh
Charge Current [2]	Max. Continuous	100 A
	Peak	150 A (120 sec)
Discharge Current [2]	Max. Continuous	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°C～55°C Discharge: -20°C～55°C
Storage Temperature		0～35°C
Relative Humidity		95% (non-condensing)
Altitude		≤3000m
Cycle Life		≥6000(25°C±2°C,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

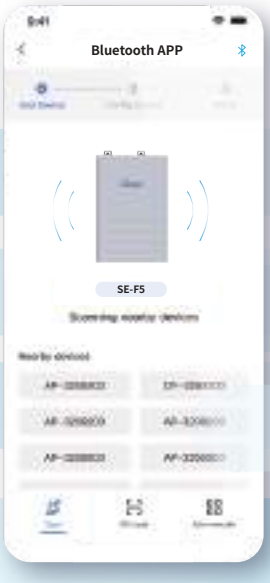
SE-F5 Pro Model Selection and Appearance Reference

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