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

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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]	Recommend	50 A
	Max. Continuous	100 A
	Peak	150 A (120 sec)
Discharge Current [2]	Recommend	50 A
	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.

Power button
PCS
OUT
IN
Data acquisition stick interface
SOC
RUN
ALM
Circuit breaker
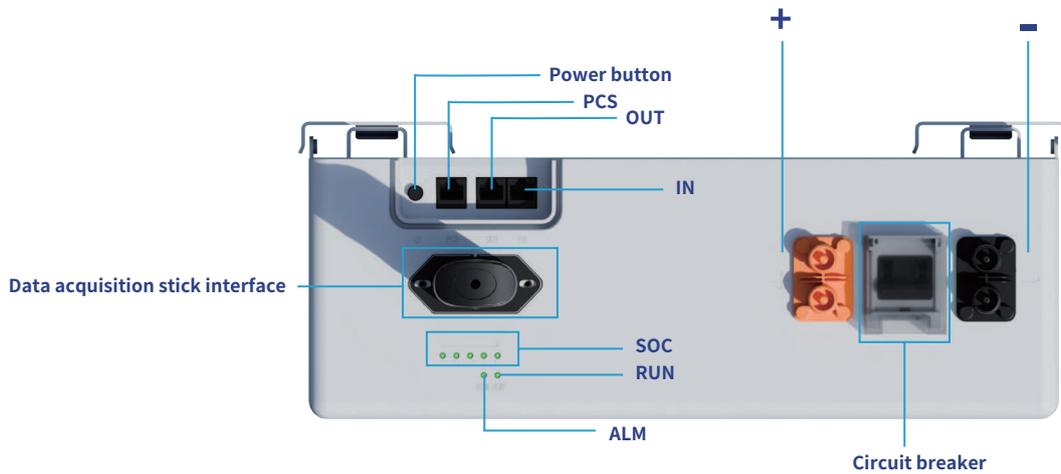
◎ -: Battery negative terminal connection position(Quickly plug and unplug).

◎ +: 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.
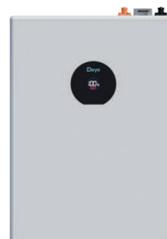
Mounting example

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
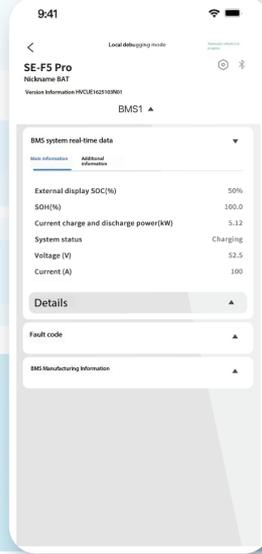
Deye APP （Optional WiFi Data Logger）

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