



# 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 <sup>[1]</sup>	
Nominal Voltage	
Operating Voltage	
Nominal Energy	
Useable Energy <sup>[2]</sup>	
Charge Current <sup>[3]</sup>	Recommend
	Max. Continuous
	Peak
Discharge Current <sup>[3]</sup>	Recommend
	Max. Continuous
	Peak

LiFePO <sub>4</sub>
100 Ah
Max. 32 pcs in parallel
51.2 V
44.8 V ~ 57.6 V
5.12 kWh
5.12kWh
50 A
100 A
150 A ( 120 sec )
50 A
100 A
150 A ( 120 sec )

### 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 <sup>[4]</sup>
Energy Throughput <sup>[4]</sup>
Certification

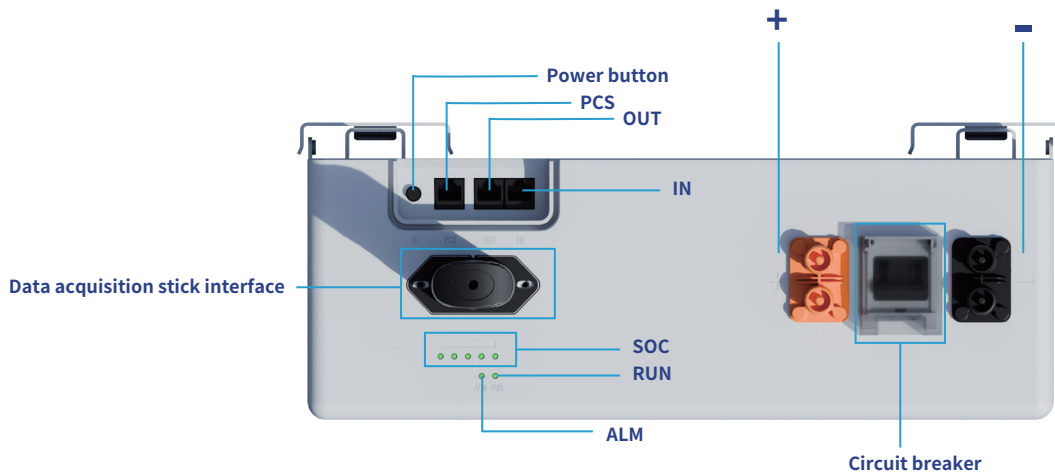
90% DoD
404 × 547 × 141 mm
44 kg
LED ( SOC, working, protecting ) & Buzzer
IP21
Charge: 0°C~55°C Discharge: -20°C~55°C
0~35°C
95% (non-condensing)
≤3000m
≥6000(25°C±2°C,70%EOL)
Wall-Mounted, Floor-Mounted, Stack-Mounted
CAN2.0, RS485, Optional module, (WiFi+Bluetooth+APP)
10 years
16 MWh
UN38.3, MSDS, CE, CB, VDE2510-50

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

[2]DC Usable Energy, test conditions: 100% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[3] 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.

[4] 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

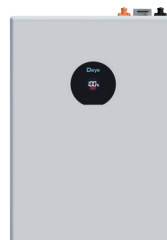
### Stacked

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

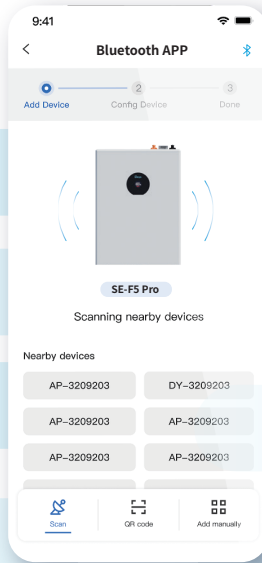


# Deye APP (Optional WiFi Data Logger)

Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade

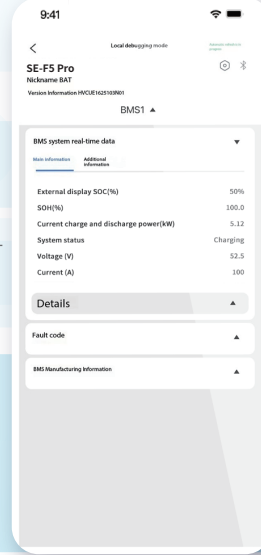


Local monitoring mode for battery

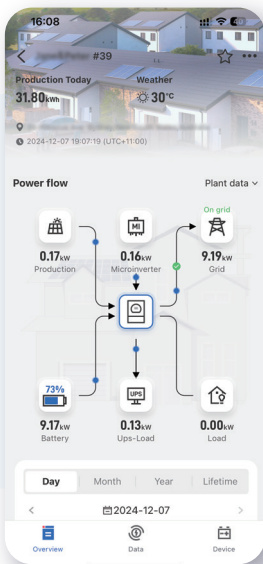
Quick Pairing

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