



# RESIDENTIAL ESS SOLUTION

SE-F5 Pro



## Comprehensive Protection

Advanced BMS with active fuse



## Flexible Expansion

Max. 32 units in parallel



## Optimized Energy Density

Integrated PACK: reduced line loss, enhanced energy density



## Ultra-efficient

Support Max. 1C charge & 1C discharge.



## Easy Maintenance

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



## Reliable Durability

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

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## Model

### SE-F5 Pro

#### Main Parameters

|                                  |  |
|----------------------------------|--|
| Battery Chemistry                | LiFePO <sub>4</sub>  |
| Capacity                         | 100 Ah   |
| Scalability <sup>[1]</sup>       | 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 <sup>[2]</sup>    | Recommend: 50 A<br>Max. Continuous: 100 A<br>Peak: 150 A ( 120 sec ) |
| Discharge Current <sup>[2]</sup> | Recommend: 50 A<br>Max. Continuous: 100 A<br>Peak: 150 A ( 120 sec ) |

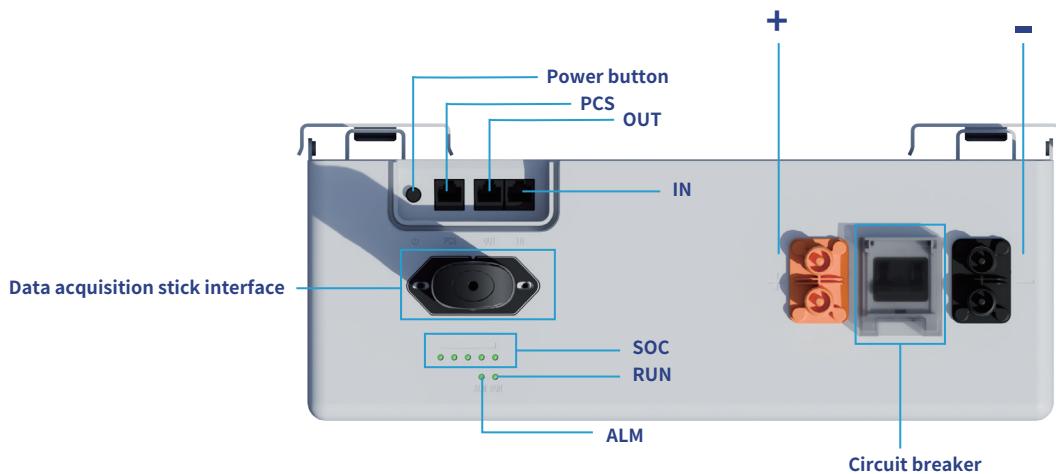
#### Other Parameter

|   |   |
|---|---|
| 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 <sup>[3]</sup>                  | 10 years  |
| Energy Throughput <sup>[3]</sup>                | 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.



- ◎ -: 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

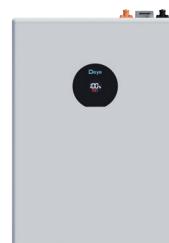
### Stacked

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

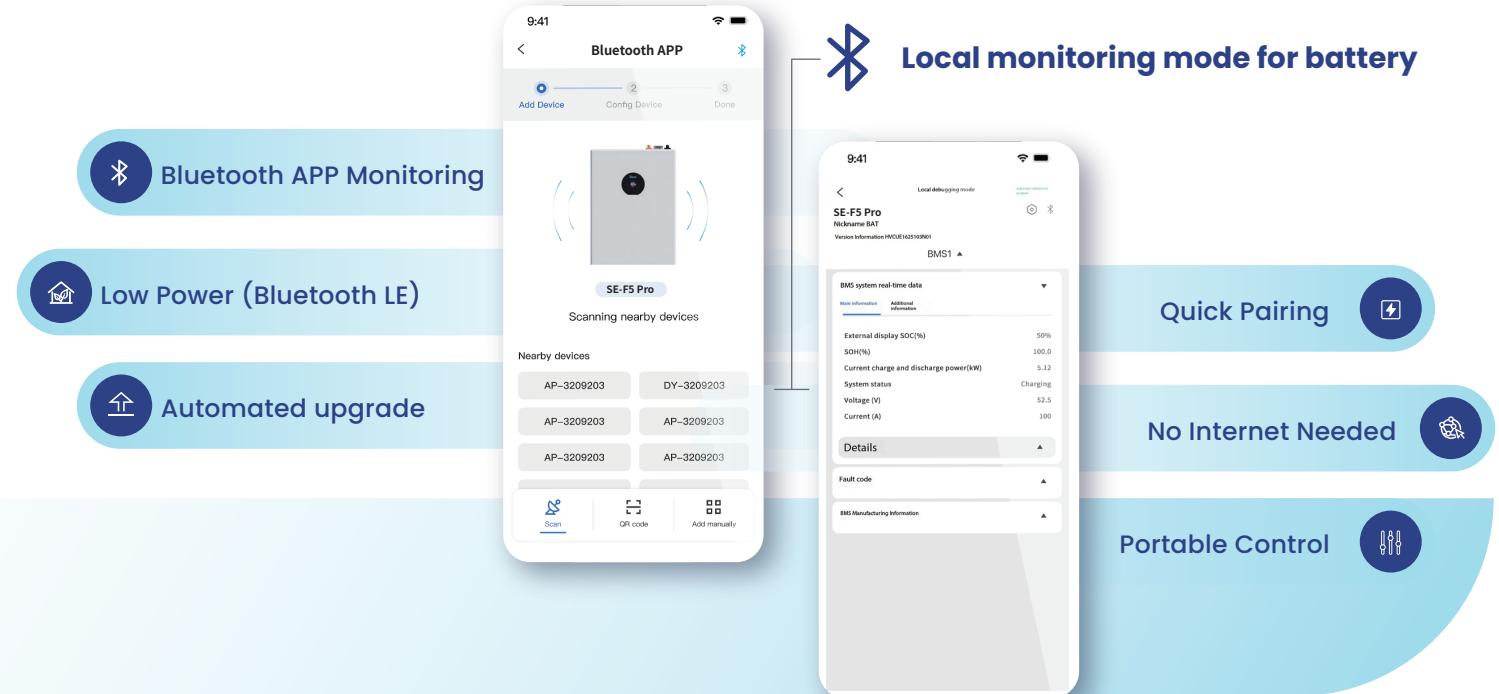


### Wall mounted

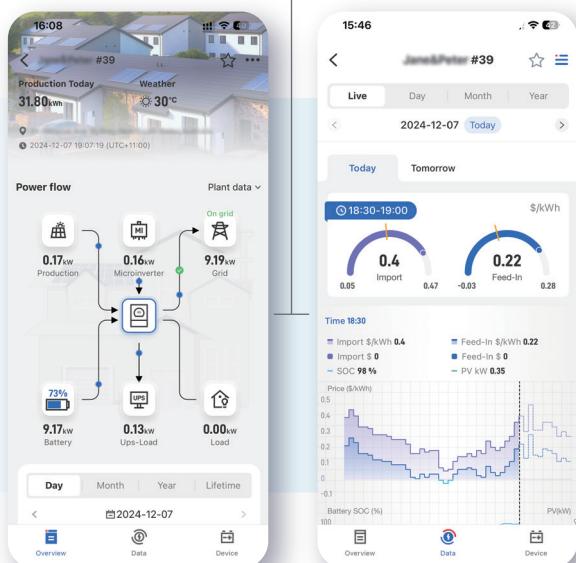
All support wall mounted installation, and support for multiple packs in parallel



# Deye APP (Optional WiFi Data Logger)



## 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](http://www.deyeess.com) / [www.deyeinverter.com](http://www.deyeinverter.com)