



NEPT S RESIDENTIAL ESS SOLUTION

SE-F5 Plus-A

Comprehensive Protection

- Advanced BMS with active fuse

Superior Performance

- Support Max. 100 A charge & discharge, GAN MOSFETs: 50% loss reduction, high-temp resistance

Optimized Energy Density

- Integrated PACK: reduced line loss, enhanced energy density

Flexible Expansion

- Max. 32 units in parallel

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

Model

Main Parameters

Battery Chemistry	
Capacity ^[1]	
Scalability ^[2]	
Nominal Voltage	
Operating Voltage	
Nominal Energy	
Charge Current ^[3]	Recommend
	Max. Continuous
	Peak
Discharge Current ^[3]	Recommend
	Max. Continuous
	Peak

Other Parameter

Depth of Discharge ^[4]	
Dimension (W × H × D) (Without hanging board)mm	
Weight Approximate	
LED Indicator	
IP Rating of Enclosure	
Operating Temperature	
Storage Temperature	
Relative Humidity	
Altitude	
Cycle Life ^[1]	
Installation	
Communication	
Warranty Period ^[5]	
Energy Throughput ^[5]	
Certification	

SE-F5 Plus-A

LiFePO ₄	
100 Ah	
Max. 32 pcs in parallel	
51.2 V	
44.8 V ~ 57.6 V	
5.12 kWh	
50A	
100A	
120A(10 sec)	
50A	
100A	
120A(10sec)	
100%	
360 x 545 x 142.5 mm	
41 kg	
LED (SOC, working, protecting) & Buzzer	
IP21	
Charge:-10~55°C/Discharge:-20~55°C	
0°C~35°C	
95% (non-condensing)	
≤3000m	
≥6000(70%EOL)	
Wall-Mounted, Floor-Mounted, Stack-Mounted	
CAN2.0, RS485, Bluetooth+APP	
5 Years / 10 Years The warranty period depends on the final installation site of the battery system. For more information, please refer to the warranty policy.	
8 MWh	
UN38.3	

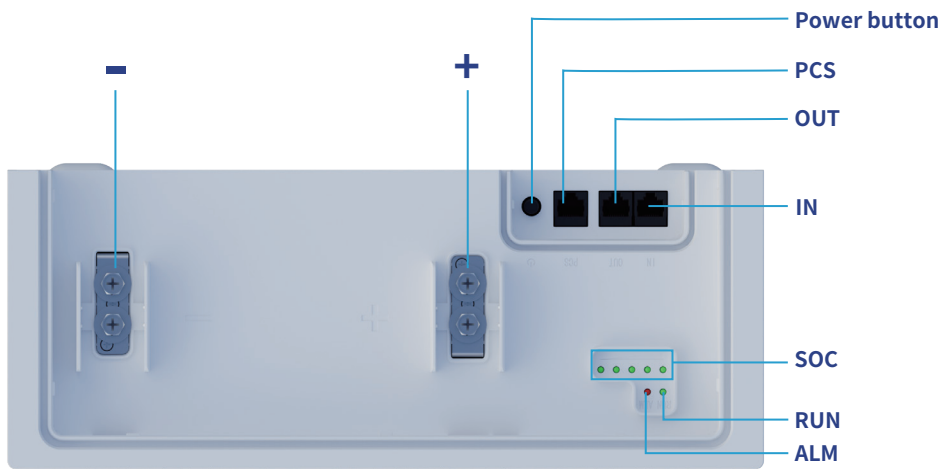
[1] Test conditions : 0.2C Charging & Discharging, 25°C±2°C.

[2] Max. 64 pcs can parallel with CAN-Bridge.

[3] The current is affected by temperature and SOC.

[4] Adjustable as required.

[5] Conditions apply, refer to Deye Warranty Letter.



⊖ -: Battery negative terminal connection position.

⊕ +: Battery positive terminal connection position.

⊙ 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.

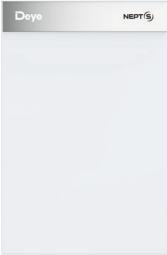
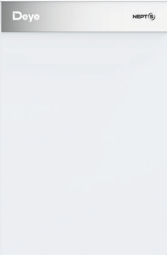
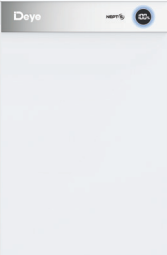
⊙ PCS: Inverter communication terminal:(RJ45port) follow the CAN protocol (baud rate:500kbps),and RS485(baud rate:9600bps),used to output battery information to the inverter.

⊙ 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.

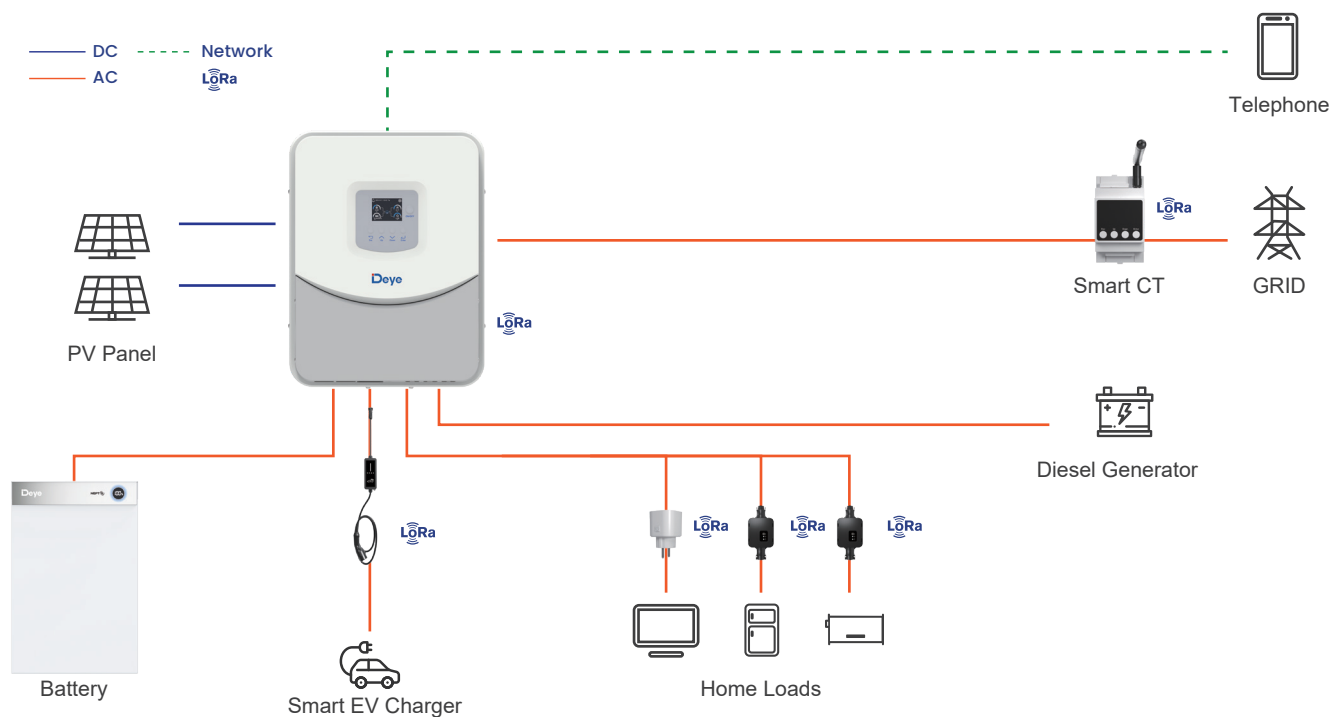
SE-F Series Model Selection and Appearance Reference



Config Version	Reference
L	
E	
C	

Deye Smart Energy Management System(Optional)

The Deye Smart Energy Management System enables seamless control with smart CT, smart plug, smart switch and solar EV charging, ensuring efficiency and full compatibility with Deye inverters.



Key Features

● Wireless Zero Export Control

Enables seamless zero export without the need for complex wiring, simplifying installation.

● Intelligent Load Control

Automatically manages loads based on time schedules and battery SOC, optimizing energy distribution.

● Solar-Powered EV Charging

Supports 100% solar charging with dynamic power adjustment for enhanced efficiency and sustainability.

● Full Compatibility

All Deye hybrid inverters can be upgraded to support this system, ensuring seamless integration with existing setups.

● Precise Off-Grid Load Management

Ensures that only non-essential loads are disconnected during off-grid operation, maintaining power supply for critical applications.



Deye APP



Bluetooth APP Monitoring



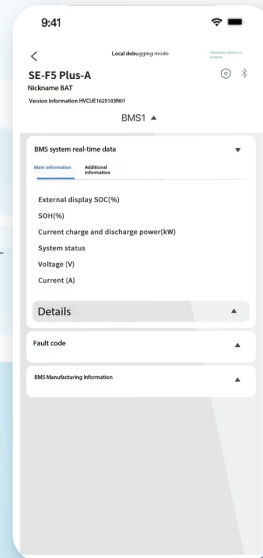
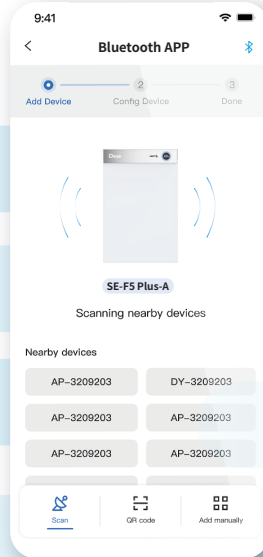
Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



Quick Pairing



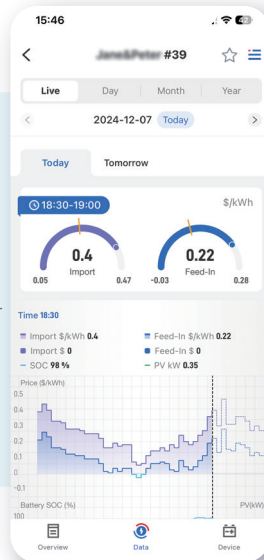
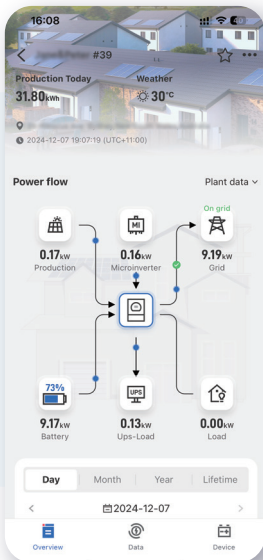
No Internet Needed



Portable Control



Remote monitoring mode for ESS(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





POWERING YOUR LIFE



Scan to access Deye Partner Platform



www.deyeess.com / www.deyeinverter.com



Deye ESS / Deye New Energy