



New

Deye

RESIDENTIAL ESS SOLUTION

SE-F5 & SE-F12



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



Superior Performance

Supports Max. 1.2C (6kW or 12kW) discharge, GaN MOSFETs: 50% loss reduction, high-temp resistance



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

RESIDENTIAL ESS SOLUTION

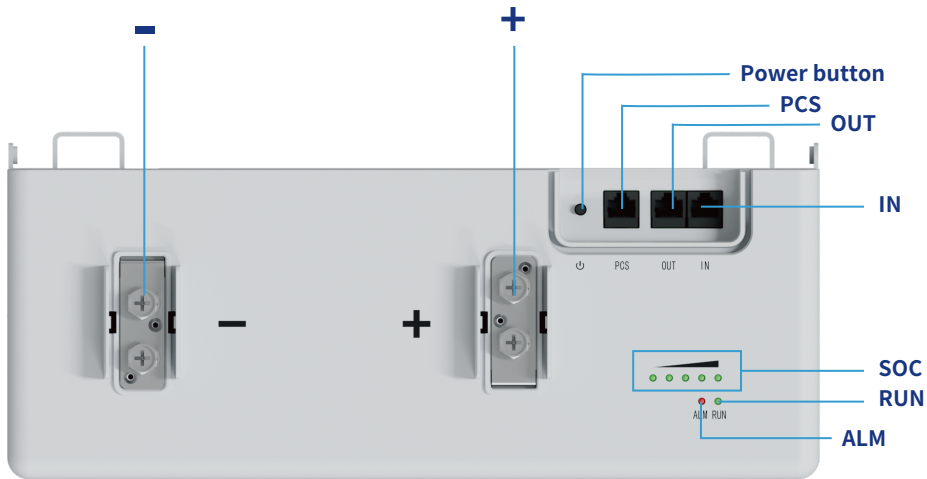


Model	SE-F5	SE-F12
Main Parameters		
Battery Chemistry	LiFePO ₄	
Capacity ^[1]	100 Ah	230 Ah
Scalability	Max. 32 pcs in parallel	
Nominal Voltage	51.2 V	
Operating Voltage	44.8 V ~ 57.6 V	
Nominal Energy ^[1]	5.12 kWh	11.8 kWh
Charge Current ^[2]	Max. Continuous	
	50 A	115 A
Discharge Current ^[2]	Peak	
	75 A (10 sec)	175 A (10 sec)
Discharge Current ^[2]	Max. Continuous	
	120 A	230 A
Discharge Current ^[2]	Peak	
	150 A (10 sec)	280 A (10 sec)
Other Parameter		
Recommend Depth of Discharge	80% DoD	
Dimension (W × H × D)	370 × 548 × 140 mm (Without hanging board)	400 × 583 × 232 mm (Without hanging board)
Weight Approximate	41 kg	82 kg
LED Indicator	LED (SOC, working, protecting) & Buzzer	
IP Rating of Enclosure	IP21	
Operating Temperature	Charge: 0~55°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,80%DOD,70%EOL)	
Installation	Wall-Mounted, Stack-Mounted	
Communication	CAN2.0, RS485, Bluetooth, APP	
Warranty Period ^[3]	5 years	
Energy Throughput ^[3]	8 MWh	18 MWh
Certification	UN38.3, MSDS	

[1] Test conditions : 25°C±2°C, at beginning of life and calibration mode, 0.2C charge & 0.2C discharge, 100% DOD.

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

[3] 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.

Deye APP

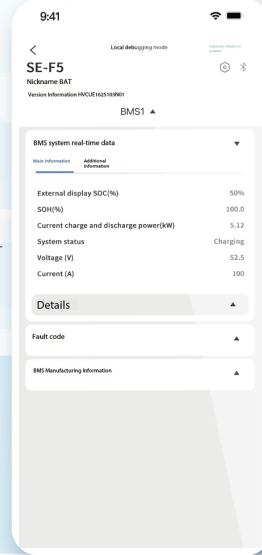
Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade



Local monitoring mode for battery

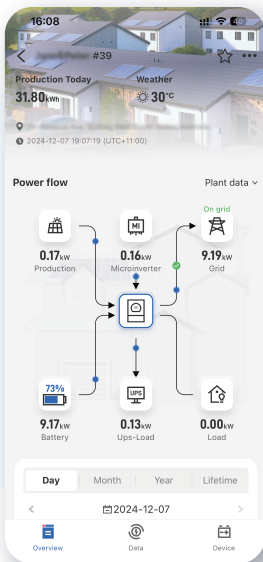


Quick Pairing

No Internet Needed

Portable Control

Remote monitoring mode for ESS(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