ESS Solution

SE-F5 & SE-F5 Plus & SE-F12 & SE-F16

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Comprehensive Protection
Advanced BMS with active fuse

Superior Performance
Support Max. 1C charge & 1.2C discharge (SE-F5 & F5 Plus), 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℃ to 55℃, natural cooling

Tesla Solar SA

ESS Solution

Model		SE-F5	SE-F5 Plus	SE-F12	SE-F16
Main Parameters					
Battery Chemistry		$LiFePO_4$			
Capacity		100 Ah		230 Ah	314 Ah
Scalability		Max. 32 pcs in parallel			
Nominal Voltage		51.2 V			
Operating Voltage		44.8 V ~ 57.6 V			
Nominal Energy		5.12 kWh		11.8 kWh	16 kWh
Charge Current [1]	Max. Continuous	100 A		230 A	160 A
	Peak	120 A (10 sec)		280 A (10 sec)	
Discharge Current [1]	Max. Continuous	120 A		230 A	
	Peak	150 A (10 sec)		280 A (10 sec)	
Other Parameter					
Recommend Depth of Discharge		80% DoD	90% DoD		
Dimension (W × H × D) (Without hanging board)		370 × 548 × 140 mm		400 × 583 × 232 mm	400 × 708 × 233 mm
Weight Approximate		41 kg		82 kg	107 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,70%EOL)			
Installation		Wall-Mounted, Floor-Mounted, Stack-Mounted			
Communication		CAN2.0, RS485, Bluetooth+APP			
Warranty Period [2]		5 years	10 years	5 years / 10 years (extended warranty)	
Energy Throughput [2]		8 MWh	16 MWh	18 MWh	25 MWh
Certification		UN38.3, MSDS			

[1] The current is affected by temperature and SOC.
[2] Conditions apply, refer to Deye Warranty Letter.

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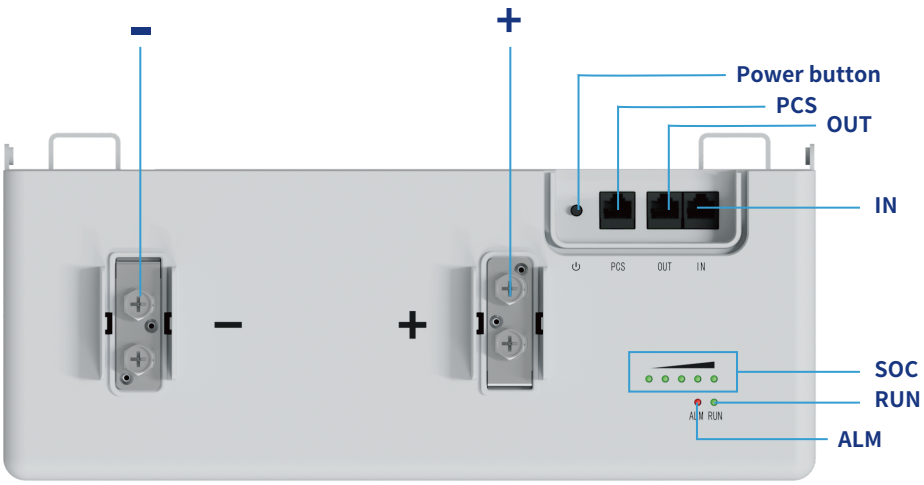


◎ -: Battery negative terminal connection position.

◎ +: 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.

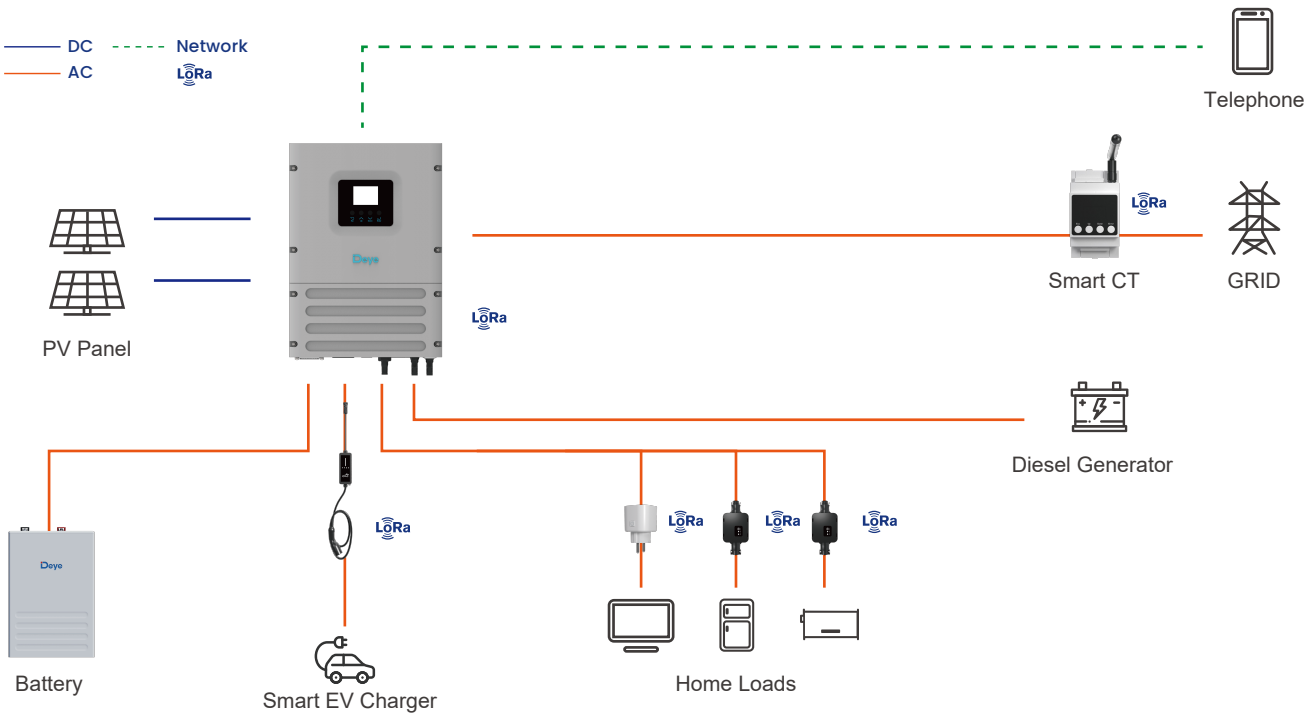
◎ PCS: Inverter communication terminal:(RJ45port) follow the CAN protocol (baud rate:500kbps),and RS485(baud rate:9600bps),used to output battery information to the inverter.

◎ 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 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.



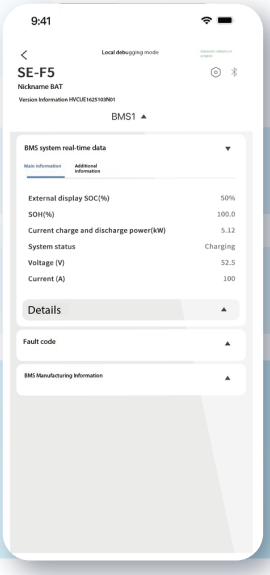
Key Features

- **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.

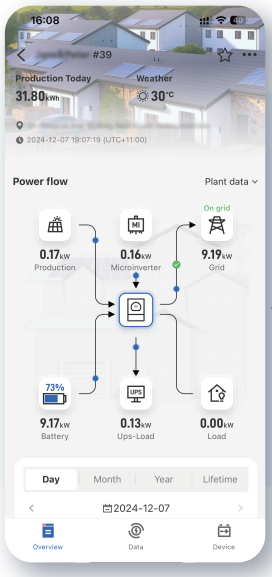
Deye APP

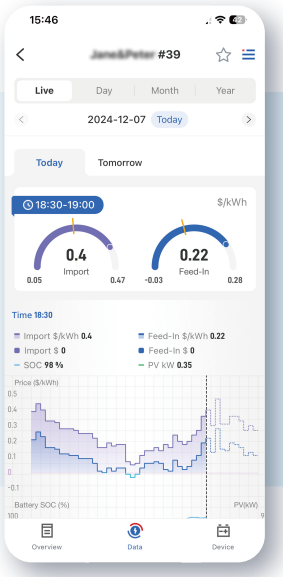
Local monitoring mode for battery

- Bluetooth APP Monitoring
- Low Power (Bluetooth LE)
- Automated upgrade
- Quick Pairing
- No Internet Needed
- Portable Control



Remote monitoring mode for ESS(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

POWERING YOUR LIFE

www.deyeess.com / www.deyeinverter.com

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