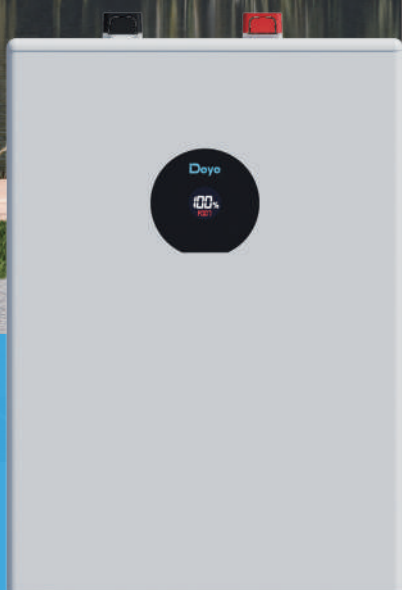
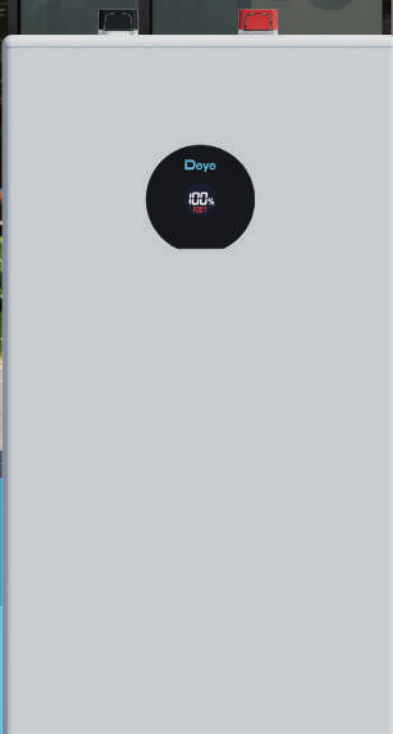


ESS Solution

SE-F12 & SE-F16



• SE-F12-C



• SE-F16-C

SE-F12 & SE-F16



Comprehensive Protection

— Advanced BMS with active fuse



Superior Performance

— Support Max. 1C charge & 1C discharge (SE-F12), 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

ESS Solution



| Model | | |
|---|-----------------|--|
| Main Parameters | | |
| Battery Chemistry | | LiFePO ₄ |
| Capacity | | 230 Ah |
| Scalability ^[1] | | Max. 32 pcs in parallel |
| Nominal Voltage | | 51.2 V |
| Operating Voltage | | 44.8 V ~ 57.6 V |
| Nominal Energy | | 11.8 kWh |
| Charge Current ^[2] | Max. Continuous | 230 A |
| | Peak | 280 A (10 sec) |
| Discharge Current ^[2] | Max. Continuous | 230 A |
| | Peak | 280 A (10 sec) |
| Other Parameter | | |
| Recommend Depth of Discharge | | 90% DoD |
| Dimension (W × H × D) (Without hanging board)mm | | 400 × 559 × 233 |
| Weight Approximate | | 84 kg |
| LED Indicator | | LED (SOC, working, protecting) & Buzzer |
| IP Rating of Enclosure | | IP21 |
| Operating Temperature | | Charge: 0~55°C / Discharge: -20~55°C |
| Storage Temperature | | 0°C~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 ^[3] | | 5 years / 10 years (extended warranty) |
| Energy Throughput ^[3] | | 18 MWh |
| Certification | | UN38.3, MSDS, CE, CB |

[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.

Mounting example

Stacked

Supports 6 layers in series (4 layers for SE-F16), allows multiple clusters in parallel



SE-F12-C



SE-F16-C

Wall mounted

Optional wheels available for SE-F12 & SE-F16

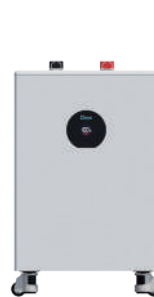
All support wall mounted installation, and support for multiple packs in parallel



SE-F12-C



SE-F16-C

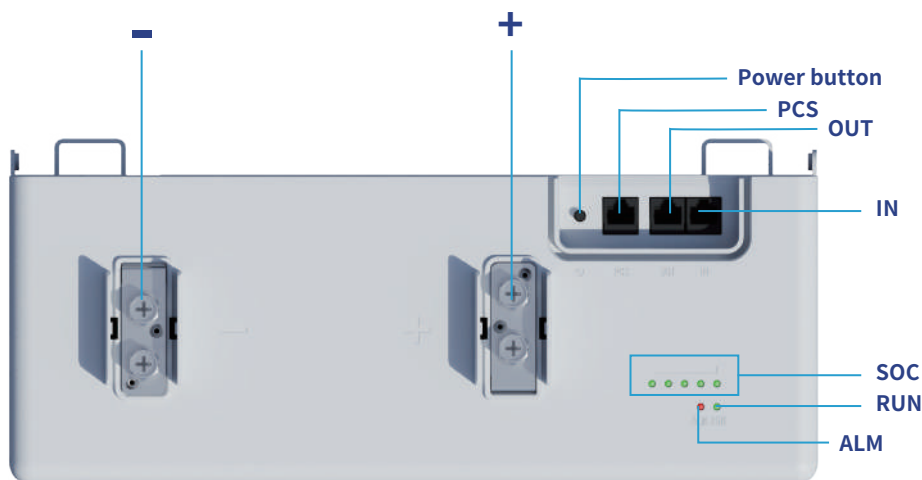


SE-F12-C



SE-F16-C

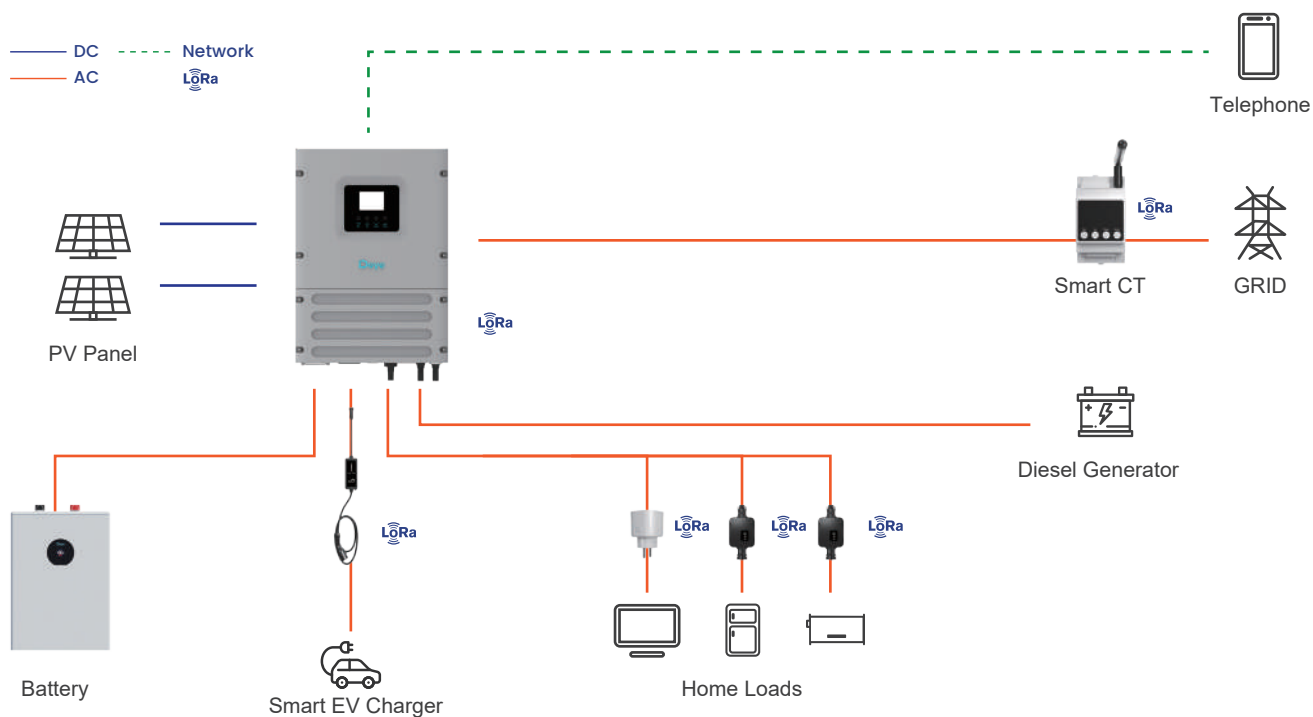
Model



- ⊖ -: 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

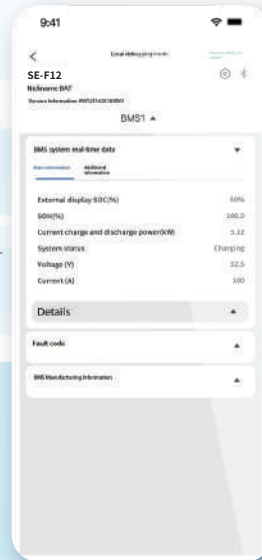
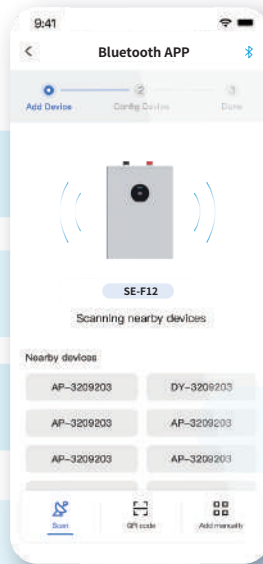
Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade



Local monitoring mode for battery



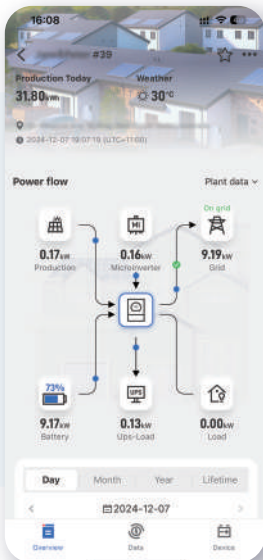
Quick Pairing

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



www.deyeess.com / www.deyeinverter.com



Deye ESS / Deye New Energy