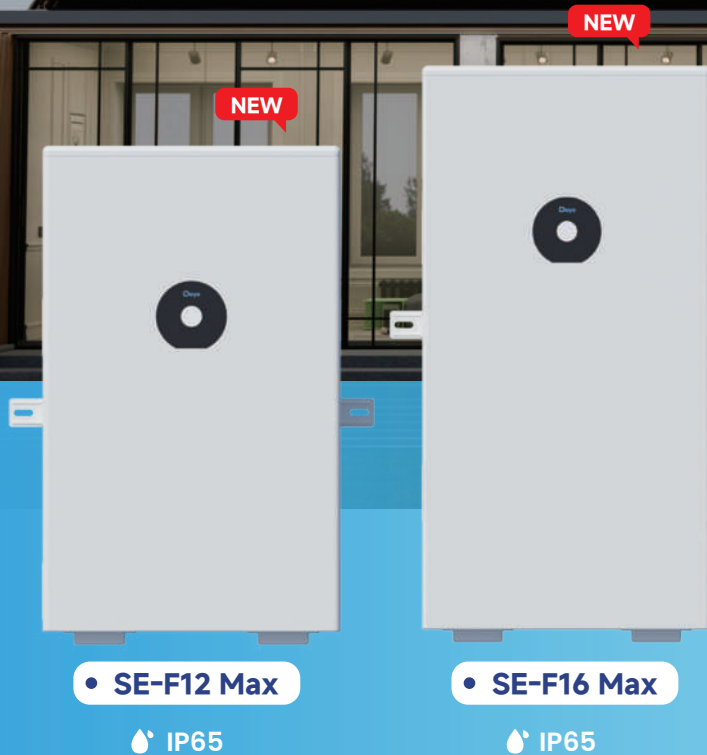


ESS Solution

SE-F12 Max & F16 Max



• SE-F12 Max

💧 IP65

• SE-F16 Max

💧 IP65



Safer & Reliable

Lithium Iron Phosphate (LFP) Battery, safety and long lifespan.
Built-in intelligent BMS with active fuse, providing complete protection.
Intelligent thermal management, IP65/NEMA 3R, wide temperature range: -20°C to 55°C / -4°F to 131°F.



Convenient & Smart

Battery module auto networking (No DIP switches), easy to use.
Support Deye Cloud remotely monitoring and upgrade via Deye Inverter.
Support local Bluetooth APP monitoring and upgrade.



Flexible

Modular design, easy to expand, Max. 32 units in parallel.
Suited to residential and small commercial applications for increasing the self-consumption ratio.



Ultra-efficient

Support Max. 1C charge & 1C discharge, Max. 11.8kW output power (SE-F12 Max).
Support Max. 0.5C charge & 0.7C discharge, Max. 11.8kW output power (SE-F16 Max).
Integrated PACK design reduces line loss and increases energy density.



Wall-Mounted & Floor-Mounted

Flat design, support wall-mounted and Floor-mounted, saving installation space.

ESS SOLUTION



Model

SE-F12 Max

SE-F16 Max

Main Parameters

Battery Chemistry

Rated Capacity (Ah) ^[1]

Scalability ^[2]

Nominal Voltage (V)

Operating Voltage(V)

Nominal Energy (kWh)

Usable Energy (kWh)^[1]

Max. Output Power (kW)

Charge Current(A) ^[3] Max. Continuous
Peak

Discharge Current(A) ^[3] Max. Continuous
Peak

Other Parameter

Recommend Depth of Discharge

Dimension (W/H/D,mm/in)(Without hanging board and terminals)

Weight Approx. (kg/lbs)

Display

Ingress Protection Rating/Enclosure Rating

Operating Temperature

Storage Temperature

Relative Humidity

Altitude (m/ft)

Cycle Life

Max. Energy RTE (DC) ^[1]

Isolation Protection

Installation

Communication

Certification

Energy Throughput ^[4]

Warranty Period ^[4]

LiFePO₄

230

314

Max. 32 pcs in parallel

51.2

44.8 - 57.6

11.8

16

11.8

16

11.8

230

160

280 (10 sec)

230

280 (10 sec)

90% DoD

464 x 821 x 267

464 x 970 x 267 / 18.3 x 38.2 x 10.5

≈95

≈123/256

LCD(SOC, Alarm), LED (Working)

IP65/NEMA 3R

Charge: 0°C~55°C/32°F~131°F (-20°C~55°C/-4°F~131°F, with Optional heating),
Discharge: -20°C - +55°C/-4°F~131°F

0°C~35°C/32°F~95°F

0~95%

≤3000/9843

≥6000(25°C±2°C/77°F ±35.6°F ,70%EOL)

95%

Built-in Circuit Breaker

Wall-Mounted, Floor-Mounted

CAN2.0, RS485, Bluetooth

UN38.3, CE, CB

UN38.3, CE, CB, UL1973, UL9540A, UL9540-DC, FCC

37 MWh

50 MWh

10 years

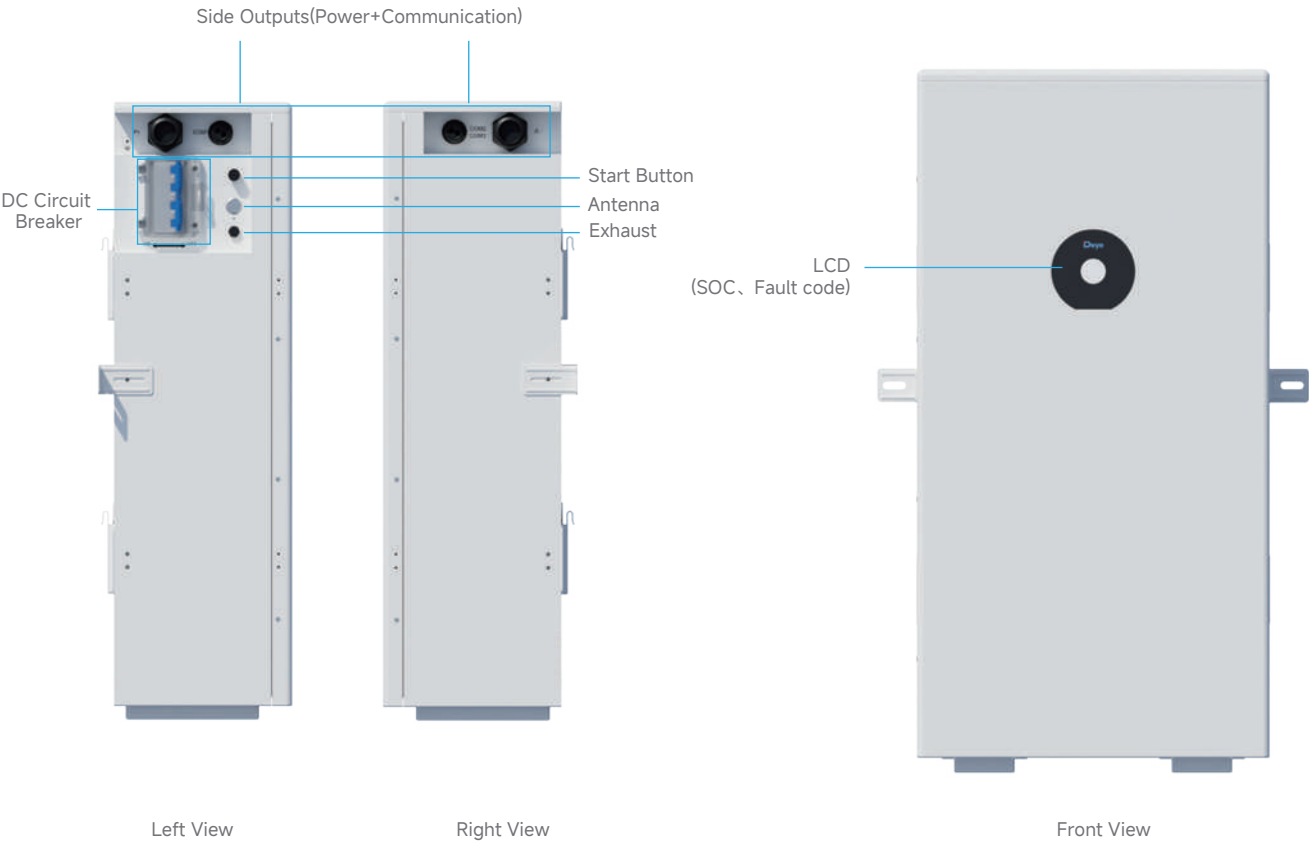
[1] Test conditions : 25°C±2°C/77°F ±35.6°F , at beginning of life, 0.5C charge & 0.5C discharge,100% DOD.

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

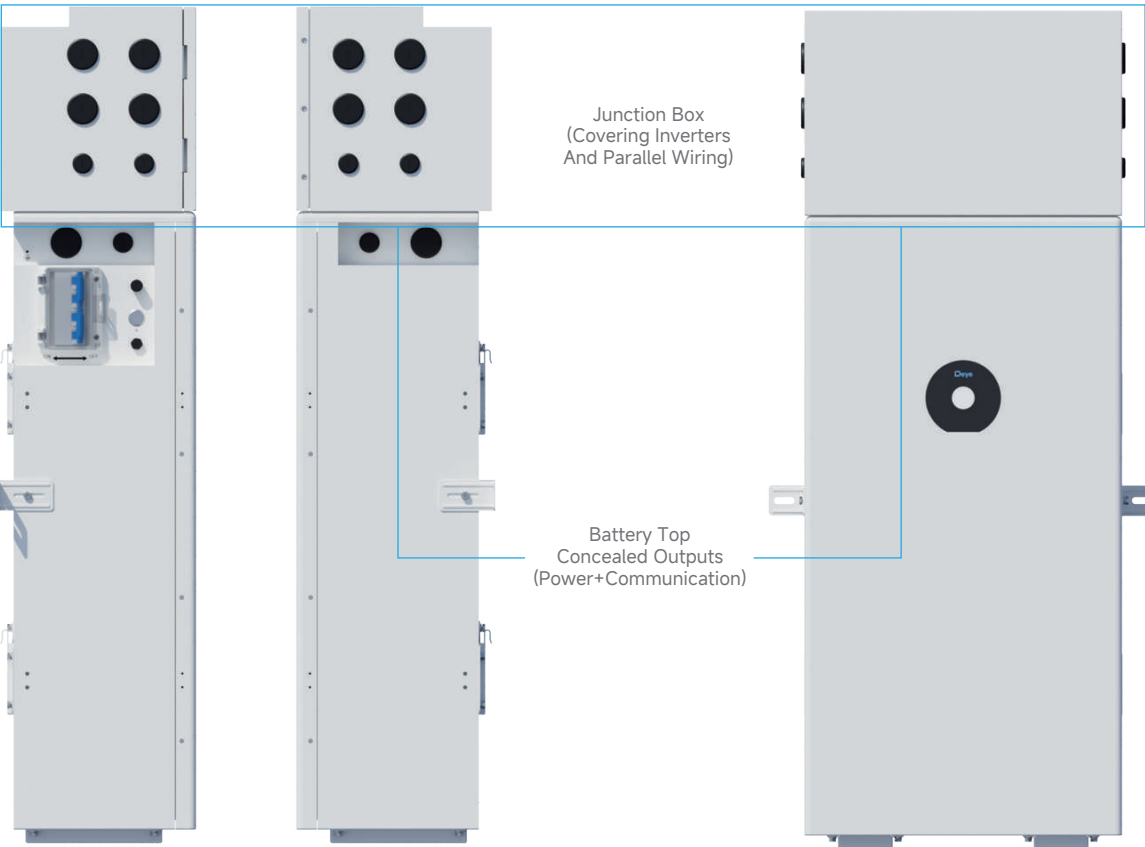
[3] The current is affected by temperature and SOC.

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

Without Junction Box(SE-F12 Max & F16 Max)



With Junction Box(SE-F16 Max)



Deye APP



Bluetooth APP Monitoring



Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



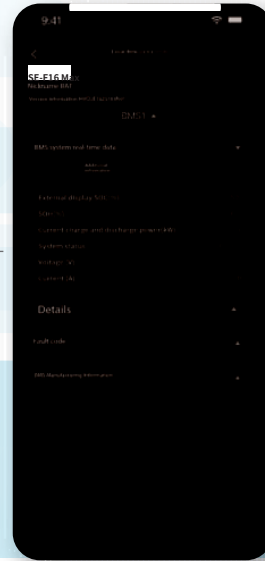
Quick Pairing



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