

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
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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]

LiFePO ₄	
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	

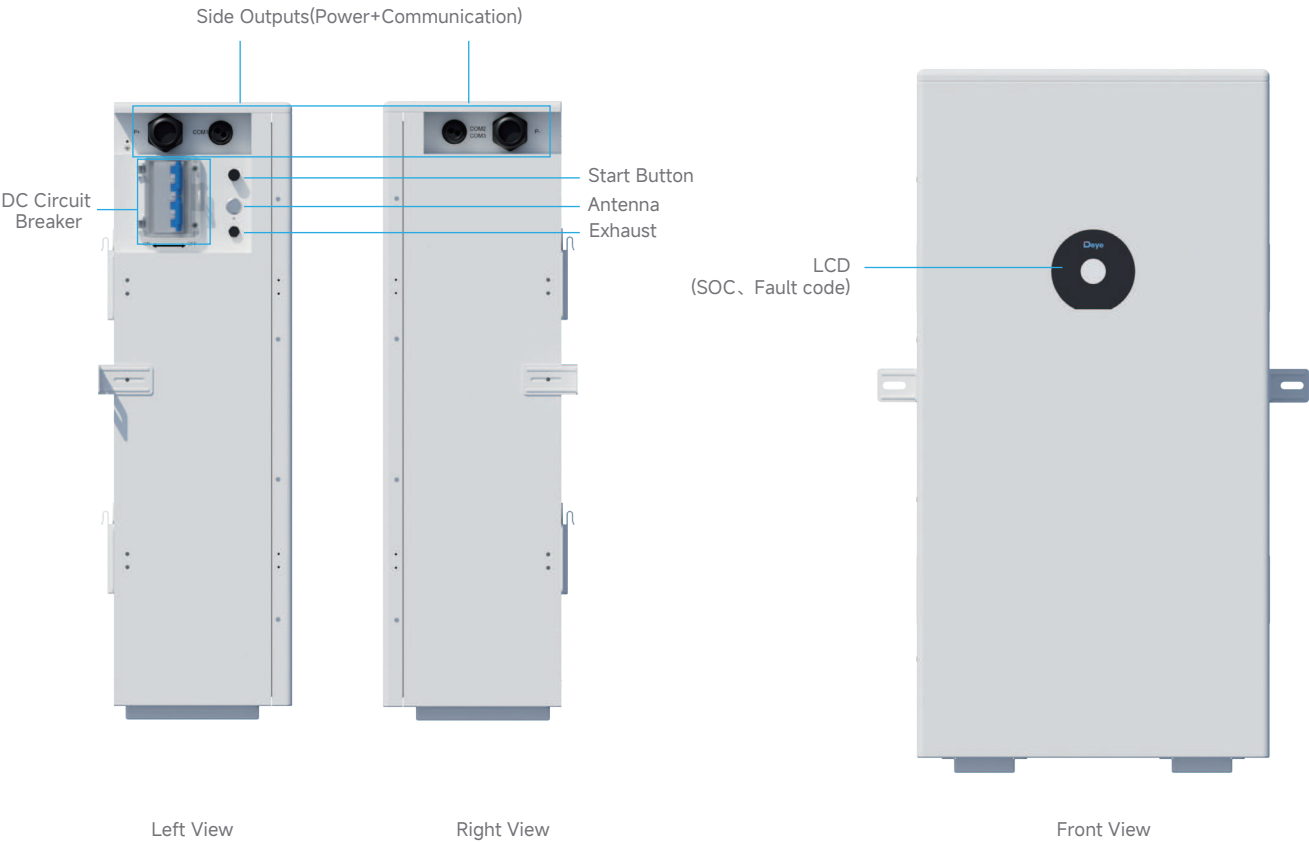
[1] Test conditions : 25°C±2°C/77°F ±35.6°F , at beginning of life, 0.5C charge & 0.5C discharge,100% DOD.

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

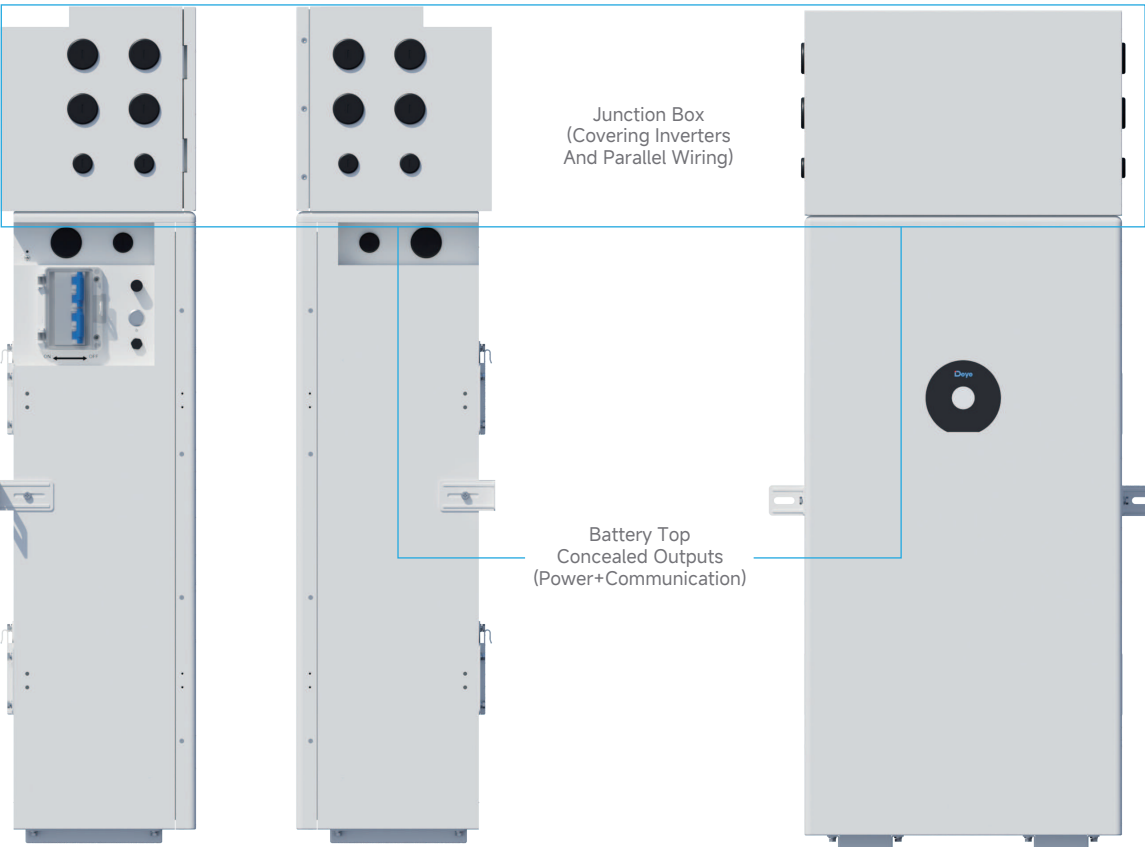
[3] The current is affected by temperature and SOC.

[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



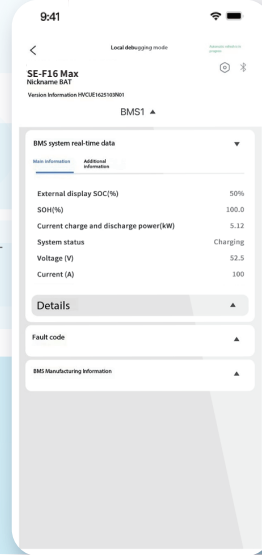
Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



Quick Pairing



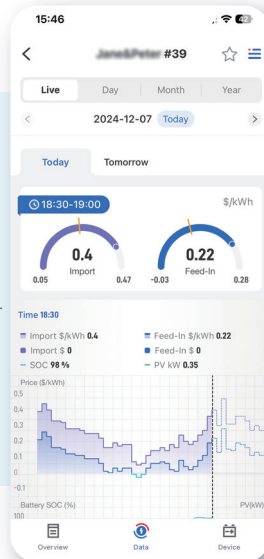
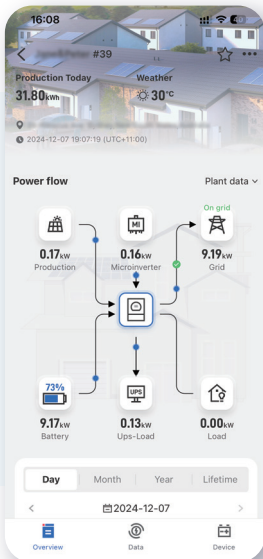
No Internet Needed



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