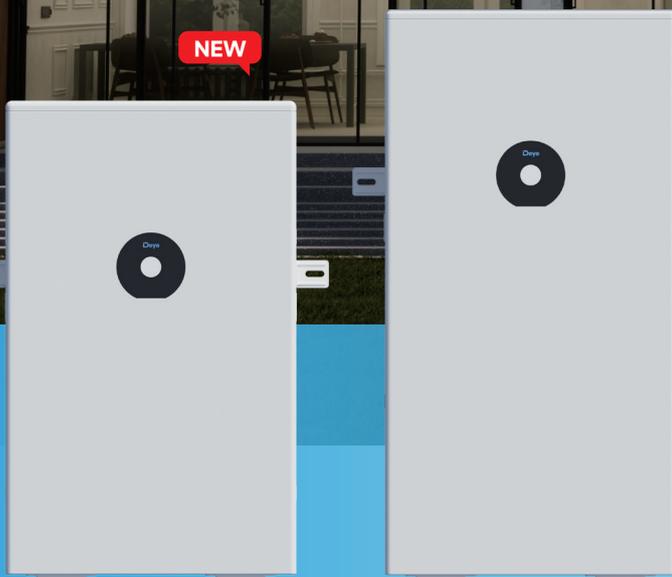


ESS Solution

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.

Flexible

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

Wall-Mounted & Floor-Mounted

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

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.

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.

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*767*244.5/18.3" x 30.2" x 9.63"	464*914*244.5/18.3" x 36.0" x 9.63"
≈93/205.03	≈118/260.15
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	

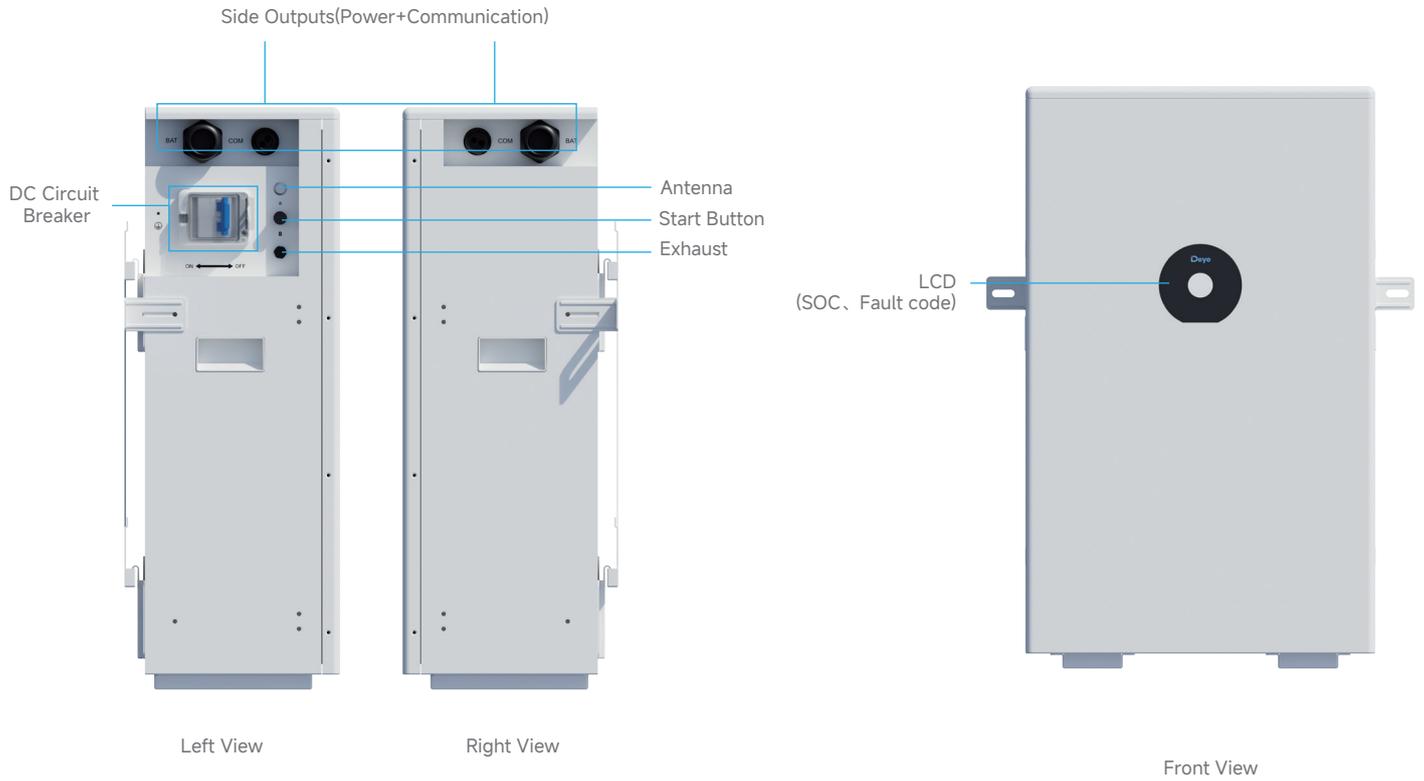
[1] Test conditions : 25°C±2°C/77°F ±35.6°F , at beginning of life, 0.5C charge & 0.5C discharge,100% DOD.

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

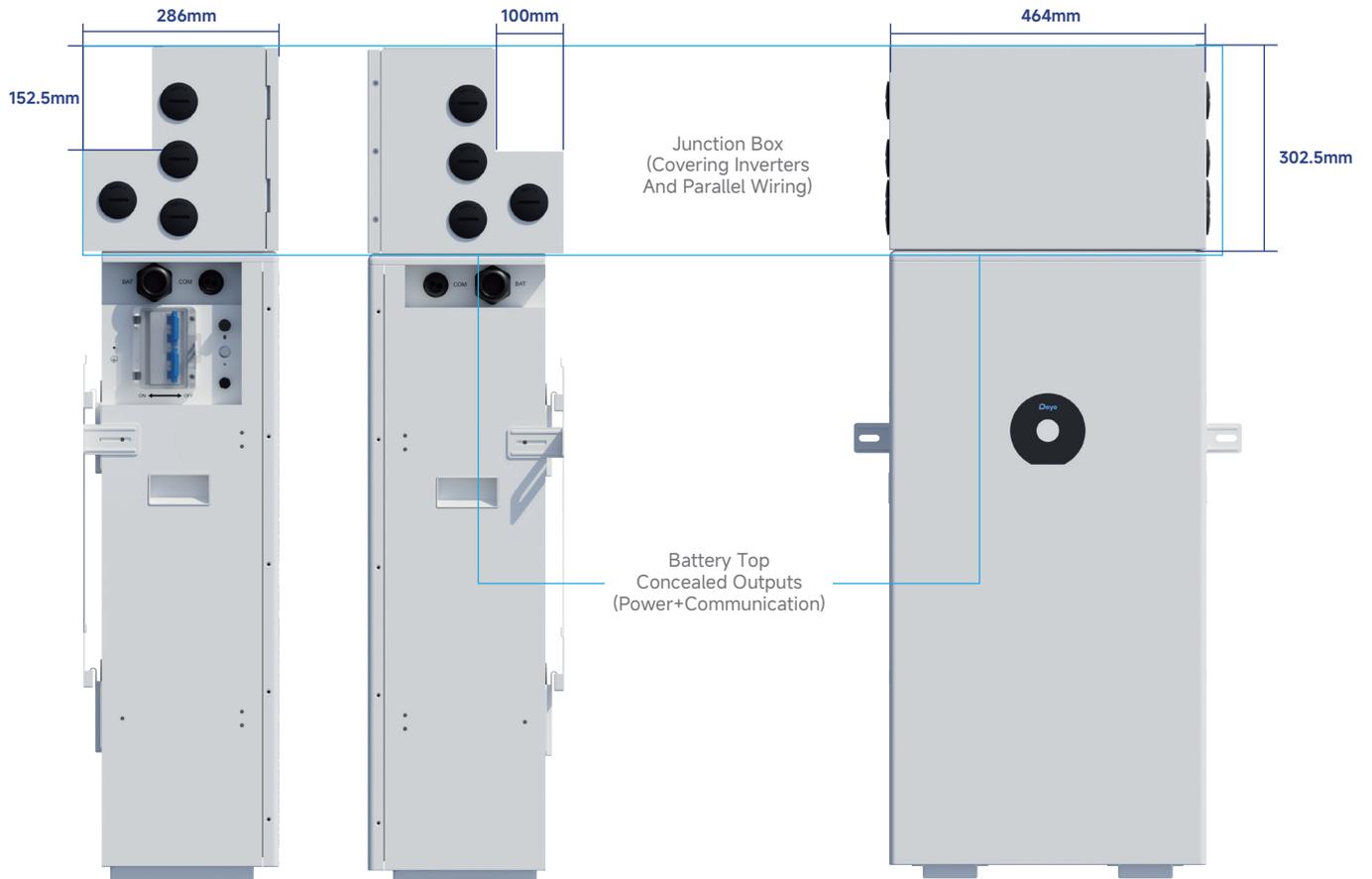
[3] The current is affected by temperature and SOC.

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

Without Junction Box(SE-F12 Max & F16 Max)(For EU, AS, AF, LATAM)



With Junction Box(SE-F16 Max) (For NA , 1000A)



Deye APP

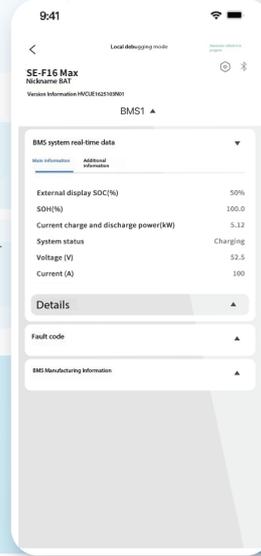
Bluetooth APP Monitoring

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