

ESS Solution



Model

Main Parameters	SE-F12	SE-F12 Max	SE-F16	SE-F16 Max
Battery Chemistry			LiFePO ₄	
Capacity	230 Ah		314 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		16 kWh	
Charge Current ^[2]	Max. Continuous Peak	230 A 280 A (10 sec)		160 A
Discharge Current ^[2]	Max. Continuous Peak		230 A 280 A (10 sec)	
Other Parameter				
Recommend Depth of Discharge			90% DoD	
Dimension (W × H × D) (Without hanging board)mm	400 × 559 × 233	464 × 778 × 267	400 × 708 × 233	464 × 925 × 267
Weight Approximate	84 kg	≈95 kg	109 kg	≈123 kg
LED Indicator	LED (SOC, working, protecting) & Buzzer	LCD(SOC, Alarm), LED (Working)	LED (SOC, working, protecting) & Buzzer	LCD(SOC, Alarm), LED (Working)
IP Rating of Enclosure	IP21	IP65	IP21	IP65
Operating Temperature	Charge: 0~55°C (-20~55°C, 12 Max/16 Max with Optional heating)		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	CAN2.0, RS485, Optional module, (WiFi+Bluetooth+APP)	CAN2.0, RS485, Bluetooth+APP	CAN2.0, RS485, Optional module, (WiFi+Bluetooth+APP)
Warranty Period ^[3]	5 years / 10 years (extended warranty)	10 years	5 years / 10 years (extended warranty)	10 years
Energy Throughput ^[3]	18 MWh	37 MWh	25 MWh	50 MWh
Certification	UN38.3, CE, CB	UN38.3, CE, CB	UN38.3, CE, CB	UN38.3, CE, CB, UL1973, UL9540A, UL9540-DC, FCC

[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.