

Spring Series

Off-Grid ESS Solution

Wall-Mounted Battery(LV)



SE-F5 & SE-F12 (AS, AF, LATAM)

Technical Data

Main Parameters			
Model		SE-F5	SE-F12
Battery Chemistry		LiFePO ₄	
Capacity ^[1]		100 Ah	230 Ah
Scalability		Max. 32 pcs in parallel	
Nominal Voltage		51.2V	
Operating Voltage		44.8 V ~ 57.6 V	
Nominal Energy ^[1]		5.12 kWh	11.8 kWh
Charge Current ^[2]	Max. Continuous	50 A	115 A
	Peak	75 A (10 sec)	175 A (10 sec)
Discharge Current ^[2]	Max. Continuous	120 A	230 A
	Peak	150 A (10 sec)	280 A (10 sec)

Other Parameters			
Recommend Depth of Discharge		80% DoD	
Dimension (W × D × H, mm)		370 × 548 × 140 mm (Without hanging board)	400 × 583 × 232 mm (Without hanging board)
Weight Approximate		39 kg	78 kg
LED Indicator		LED (SOC, working, protecting) & Buzzer	
IP Rating of Enclosure		IP21	
Operating Temperature		Charge: 0~55°C / Discharge: -20°C~55°C	
Storage Temperature		0~35°C	
Relative Humidity		95% (non-condensing)	
Altitude		≤3000m	
Cycle Life		≥6000(25°C±2°C,0.2C/0.2C,80%DOD,70%EOL)	
Installation		Wall-Mounted, Stack-Mounted	
Communication		CAN2.0, RS485, Bluetooth, APP	
Warranty Period		5 years	
Energy Throughput ^[3]		8 MWh	18 MWh
Certification		UN38.3, MSDS	

[1] Test conditions : 25°C±2°C, at beginning of life and calibration mode, 0.2C charge & 0.2C discharge, 100% DOD.
[2] The current is affected by temperature and SOC.
[3] Conditions apply, refer to Deye Warranty Letter.

Comprehensive Protection

- Advanced BMS with active fuse

Optimized Energy Density

- Integrated PACK: reduced line loss, enhanced energy density

Easy Maintenance

- Auto-networking, Deye Cloud & Bluetooth APP remote/local control

Superior Performance

- Supports Max. 1.2C (6kW or 12kW) discharge, GaN MOSFETs: 50% loss reduction, high-temp resilient

Flexible Expansion

- Max. 32 units in parallel

Reliable Durability

- Operates reliably in -20°C to 55 °C, natural cooling