



Spring Series

Off-Grid ESS Solution

Wall-Mounted Battery(LV)

Comprehensive Protection

- Advanced BMS with active fuse

Optimized Energy Density

- Integrated PACK: reduced line loss, enhanced energy density

Easy Maintenance

- Auto-networking, Local monitoring mode for battery, remote monitoring mode for ESS

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

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

SE-F5 Pro & SE-F12 & SE-F16 (Global)

Technical Data

Main Parameters						
		SE-F5	SE-F5 Plus	SE-F5 Pro	SE-F12	SE-F16
Battery Chemistry		LiFePO ₄				
Capacity		100 Ah	100 Ah	100 Ah	230 Ah	314 Ah
Scalability ^[1]		Max. 32 pcs in parallel				
Nominal Voltage		51.2V				
Operating Voltage		44.8 V ~ 57.6 V				
Nominal Energy		5.12 kWh	5.12 kWh	5.12 kWh	11.8 kWh	16 kWh
Charge Current ^[2]	Max. Continuous	50 A	50 A	100 A	230 A	160 A
	Peak	75 A (10 sec)	75 A (10 sec)	150 A (120 sec)	280 A (10 sec)	280 A (10 sec)
Discharge Current ^[2]	Max. Continuous	120 A	120 A	100 A	230 A	230 A
	Peak	150 A (10 sec)	150 A (10 sec)	150 A (120 sec)	280 A (10 sec)	280 A (10 sec)

Other Parameters					
Model	SE-F5	SE-F5 Plus	SE-F5 Pro	SE-F12	SE-F16
Recommend Depth of Discharge	80% DoD	90% DoD			
Dimension (W × D × H, mm) (Without hanging board)	370 × 548 × 140	370 × 548 × 140	404 × 547 × 140	400 × 583 × 232	400 × 708 × 233
Weight Approximate	41 kg	41 kg	44 kg	82 kg	107 kg
LED Indicator	LED (SOC, working, protecting) & Buzzer				
IP Rating of Enclosure	IP21				
Operating Temperature	Charge: 0°C~55°C / Discharge: -20°C~55°C		Charge / Discharge: -20°C~55°C		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,70%EOL)				
Installation	Wall-Mounted, Floor-Mounted, Stack-Mounted				
Communication	CAN2.0, RS485, Bluetooth+APP				
Warranty Period ^[3]	5 years	10 years	10 years	5 years / 10 years (extended warranty)	
Energy Throughput ^[3]	8 MWh	16 MWh	18 MWh	18 MWh	25 MWh
Certification	UN38.3, MSDS				
Color	White / Gray				

[1] Max. 64 pcs can parallel with CAN-Box.
[2] The current is affected by temperature and SOC.
[3] Conditions apply, refer to Deye Warranty Letter.