



ESS Solution

SE-F5 & SE-F5 Plus & SE-F12 & SE-F16

SE-F5 & SE-F5 Plus & SE-F12 & SE-F16

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Comprehensive Protection
 - Advanced BMS with active fuse
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Superior Performance
 - Support Max. 1C charge & 1.2C discharge (SE-F5 & F5 Plus), GaN MOSFETs: 50% loss reduction, high-temp resistance
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Optimized Energy Density
 - Integrated PACK: reduced line loss, enhanced energy density
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Flexible Expansion
 - Max. 32 units in parallel
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Easy Maintenance
 - Auto-networking, Local monitoring mode for battery, remote monitoring mode for ESS
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Reliable Durability
 - Operates reliably in -20°C to 55°C , natural cooling

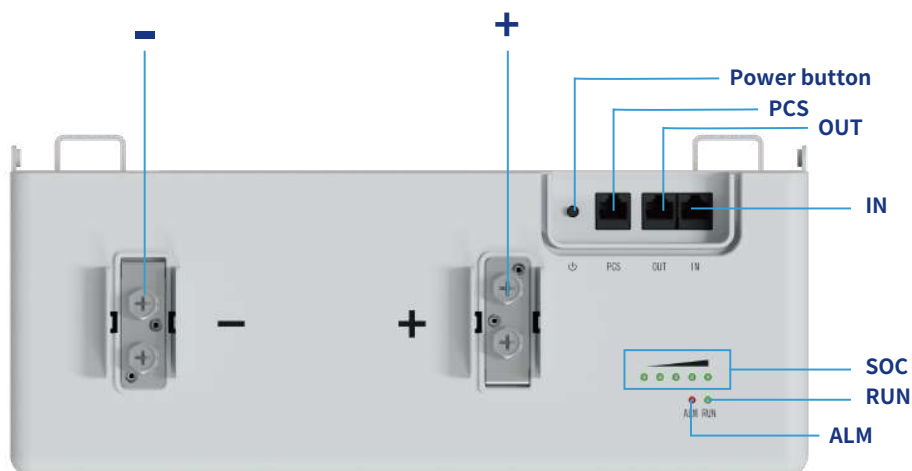
ESS Solution



Model		SE-F5	SE-F5 Plus	SE-F12	SE-F16
Main Parameters					
Battery Chemistry		LiFePO ₄			
Capacity		100 Ah		230 Ah	314 Ah
Scalability		Max. 32 pcs in parallel			
Nominal Voltage		51.2 V			
Operating Voltage		44.8 V ~ 57.6 V			
Nominal Energy		5.12 kWh		11.8 kWh	16 kWh
Charge Current ^[1]	Max. Continuous	100 A		230 A	160 A
	Peak	120 A (10 sec)		280 A (10 sec)	
Discharge Current ^[1]	Max. Continuous	120 A		230 A	
	Peak	150 A (10 sec)		280 A (10 sec)	
Other Parameter					
Recommend Depth of Discharge		80% DoD		90% DoD	
Dimension (W × H × D) (Without hanging board)		370 × 548 × 140 mm		400 × 583 × 232 mm	400 × 708 × 233 mm
Weight Approximate		41 kg		82 kg	107 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,70%EOL)			
Installation		Wall-Mounted, Floor-Mounted, Stack-Mounted			
Communication		CAN2.0, RS485, Bluetooth+APP			
Warranty Period ^[2]		5 years	10 years	5 years / 10 years (extended warranty)	
Energy Throughput ^[2]		8 MWh	16 MWh	18 MWh	25 MWh
Certification		UN38.3, MSDS			

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

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



◎ -: Battery negative terminal connection position.

◎ +: Battery positive terminal connection position.

◎ SOC: These 5 LEDs are used to display the pack SOC and charge or discharge state.

◎ RUN light: green LED lighting to show the battery running status.

◎ ALM light: red LED lighting to show the battery has been alarmed .

◎ Power button: Power on or off the control battery.

◎ PCS: Inverter communication terminal:(RJ45port) follow the CAN protocol (baud rate:500kbps),and RS485(baud rate:9600bps),used to output battery information to the inverter.

◎ OUT: parallel Communication Terminal:(RJ45port) Connect "IN"Terminal of Next battery,for Communication between multiple parallel batteries.

◎ IN: parallel Communication Terminal: (RJ45 port) Connect "OUT" Terminal of Previous battery,for Communication between multiple parallel batteries.