



# Residential ESS Solution

## Deye Spring SE Series

Support 3/5/6/8kW single-phase or three-phase inverters, meeting the application requirements of 1-4 hours



### Eco-Friendly

- Use environmental protection materials, the whole module non-toxic, pollution-free



### Convenient

- Battery module auto networking, easy maintenance
- Support remote monitoring and upgrade
- Support USB drive upgrade the firmware



### Reliable

- Support high discharge power
- IP20, natural cooling
- Wide operating temperature range: -20°C to 55°C



### Safer

- Cobalt Free Lithium Iron Phosphate LFP Battery: safety and long lifespan, high efficiency and high power
- Intelligent BMS, providing complete protection



### Flexible

- Modular design, easy to expand, Max. 64 units in parallel, Max. capacity of 327kWh
- Suitable for residential and commercial applications to increase the self-consumption ratio



### Space-Smart

- Ultra-Thin, Super-Thin, and Modular design available, suitable for diverse installation scenarios and space requirements

# Rack-Mounted Battery ( LV )

Model		SE-G5.1 Pro-B
<b>Main Parameter</b>		
Battery Chemistry		LiFePO4
Built-in Circuit Breaker		125A 2P, 60Vdc
Capacity ( Ah )		100
Scalability		Max. 64 pcs pack ( 327kWh ) in parallel ( Max. 32 pcs no external setup )
Nominal Voltage ( V )		51.2
Operating Voltage ( V )		43.2 ~ 57.6
Energy ( kWh )		5.12
Usable Energy ( kWh ) <sup>[1]</sup>		5.12
Charge / Discharge	Recommend	50
Current ( A ) <sup>[2]</sup>	Max	100
	Peak ( 2mins, 25°C )	150
<b>Other Parameter</b>		
Recommend Depth of Discharge		90%
Dimension ( W × H × D, mm )		440 × 133 × 540
Weight Approximate ( kg )		45
Master LED Indicator		5LED ( SOC : 20% ~ SOC100% ) , 3LED ( working, alarming, protecting )
IP Rating of Enclosure		IP20
Operating Temperature		Charge : 0~55°C/Discharge : -20°C~55°C
Storage Temperature		0°C ~ 35°C
Humidity		5% ~ 95%
Altitude		≤2000m
Cycle Life		≥6000 ( 25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL )
Installation		Wall-Mounted, Floor-Mounted Rack-Mounted ( 19-inch standard cabinet, cabinet depth ≥600mm )
Communication Port		CAN2.0, RS485
Warranty Period		10 years
Energy Throughput		16MWh@70%EOL
Certification		UN38.3, IEC62619, CE, CB, UK, VDE 2510-50, CEI 0-21, FCC, UL1973, UL9540, UL9540A

[1] DC Usable Energy, test conditions: 100% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

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

## Typical Configuration

Cabinet Design			
Model	SE-G5.1-Pro-B-Ultra		SE-G5.1-Pro-B-BC
IP Rating of Enclo	IP65		IP54
Bearing Capacity	≤300kg		≤250kg
Weight Approximate	75kg		51kg
Dimension (W/D/H, mm)	1085 × 140 × 1450mm	1085 × 320 × 950mm	575 × 610 × 1130mm
Altitude	≤3000m		
Recommended Operating Temperature	-20°C ~ +55°C		
Reference standard	UL2416, UL60950-1, EIA-310-E		
Warranty	10 Years		
Color	White ( RAL9016 )		
Material	SGCC		
Applicable to the Product	SE-G5.1Pro-B, SE-G5.3, SE-G5.1 or other 3U batteries		