



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
Main Parameter		
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) ^[1]		5.12
Charge / Discharge	Recommend	50
Current (A) ^[2]	Max	100
	Peak (2mins, 25°C)	150
Other Parameter		
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 (Optional heating : -20°C ~ 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		