Deye

RESIDENTIAL ESS SOLUTION

DEYE SPRING SE SERIES

Flexible

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

Safer

- Cobalt Free Lithium Iron Phosphate (LFP) Battery : Safety and long Lifespan, high efficiency and high power density
- Intelligent BMS, providing complete protection

Convenient

- Battery module auto networking, easy maintenance, support remotely monitoring and upgrade, support USB drive upgrade the firmware.

Reliable

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

Eco-Friendly

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

⩾6000 Cycles	327kWh Max. Capacity
70% EOL	10 Years Warranty

Rack-Mounted Battery (LV)

Model		SE-G5.1 Pro-B
Main Parameter		
Battery Chemistry		$LiFePO_4$
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]		4.6
Charge / Discharge Current (A) [2]	Recommend	50
	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[3]		10 years
Energy Throughput		16MWh@70%EOL
Certification		UN38.3, IEC62619, CE, UK, VDE 2510-50, CEI 0-21, FCC, UL1973, UL9540A

[1] DC Usable Energy, test conditions: 90% 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.

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

Typical Configuration

Support 12kW, 15kW inverters to connect the battery, and 3 to 12 batteries can be connected in parallel.		
1 hour solution	3xSE+12kW Inverter	3xSE+15kW Inverter
2 hours solution	5xSE+12kW Inverter	6xSE+15kW Inverter
3 hours solution	8xSE+12kW Inverter	9xSE+15kW Inverter
4 hours solution	10xSE+12kW Inverter	12xSE+15kW Inverter