

# 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



## Reliable

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



## Convenient

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



## Safer

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



## Eco-Friendly

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

# Rack-Mounted Battery ( LV )

Model		SE-G5.1 Pro-B	
Main Parameter			
Battery Chemistry		LiFePO <sub>4</sub>	
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>		4.6	
Charge / Discharge Current ( A ) <sup>[2]</sup>	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 <sup>[3]</sup>		10 years	
Energy Throughput		16MWh@70%EOL	
Certification		UN38.3, IEC62619, CE, UK, VDE 2510-50, CEI 0-21, FCC, UL1973, UL9540A, UL9540	

[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 Sol-Ark 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