

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 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]		5.12
Rated DC Power (KW)		2.5
Charge / Discharge power (kW)		5.12
Charge / Discharge Current (A) ^[2]	Recommend	50
	Max	100
	Peak (2mins, 25°C)	150
Other Parameter		
Recommend Depth of Discharge		100%
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, 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, UL9540

[1] DC Usable Energy, test conditions: 1 0 0% 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.

[4] Made in China.

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