

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

80%

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] | | 5.12 |
| 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, 80%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@80%EOL |
| Certification | | UN38.3, IEC62619, CE, UK, VDE 2510-50, CEI 0-21, FCC, UL1973, 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.

[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 |