



## Energy Storage Lithium Battery SM Classics-SM1



### Leading Built-in BMS

Embedded smart balancing and monitoring modules, resulting in a longer battery lifespan and faster emergency response capability



### Grade A Cells

Higher performance and a lifespan 3-5 years longer than B-grade cells



### LFP Material

Better stability, safety, and lifespan compared to other types of active material



### Mainstream Inverters Support

Compatible with almost all mainstream inverters available in the market



### Versatile Applications

Can be integrated into different solutions, including off-grid, on-grid and hybrid-grid solar systems



### Flexible Modular Installation

Easy to install and supports parallel connection of up to 16 battery packs, meeting various capacity needs

## Specification

Model	RL-SM1-51.2V100
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### Basic Parameters

Rated Energy	5.12kWh
Nominal Voltage	51.2V
Rated Capacity	100Ah

### Operating Parameters

End-of-charge Voltage	57.6V
End-of-discharge voltage	43.2V
Standard charge Current	50A
Max Charge Current	100A
Standard Discharge Current	50A
Max Discharge Current	100A
Max Peak Current	100A
Efficiency	>98%

### Physical

Shell Material/ Color	Metal/Grey (color optional)
Size/mm	635*500*156
Weight/kg	45

### Service Life

Cycle Life	>6000 times (0.2C, @25°C, 80%DOD)
Design Life	>10 years

### Others

Work Temperature Range	Charge: 0°C-60°C Discharge: -20°C-60°C
Communication	RS485/CAN
Chemical System	LiFePO <sub>4</sub> (LFP)

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