

# RESIDENTIAL ESS SOLUTION

## DEYE SPRING SE SERIES



### Easy Operation & Maintenance

- Battery module auto networking ( No DIP switches )
- Support remotely monitoring and upgrade the firmware
- Support external power supply activation, prevents battery suspension
- Allow over-discharge direct recharge, easy to maintain



### Safer

- ( LFP ) Battery : Safe, long-lasting, high-efficiency. Built-in circuit breaker,
- Intelligent BMS. Eco-friendly materials, non-toxic, pollution-free module.



### Flexible Application

- Easy to expand, Max. 64 units in parallel ( 327kWh / 655kWh )
- Suited to residential and commercial applications for increasing the self-consumption ratio



### Reliable

- Support 0.5C charge and discharge,
- Wide temp range : -20 C to 55 C

≥6000

Cycles

0.5C

Charge and Discharge

70%

EOL

5 Years

Warranty



# Rack-Mounted Battery (LV)



Model	SE-G5.1	SE-G10.2
Battery Chemistry	LiFePO <sub>4</sub>	
Nominal Capacity <sup>[1]</sup>	100 Ah	200 Ah
Nominal Voltage	51.2V	
Operating Voltage	44.8 V ~ 57.6 V	
Nominal Energy <sup>[1]</sup>	5.12 kWh	10.24 kWh
Cell Configuration	1P16S	2P16S
Scalability <sup>[4]</sup>	Max. 64 pcs pack ( 327kWh ) in parallel	Max. 64 pcs pack ( 655kWh ) in parallel
Charge Current <sup>[2]</sup>	Max. Continuous	50 A
	Peak	100 A (10 sec )
Discharge Current <sup>[2]</sup>	Max. Continuous	50 A
	Peak	100 A (10 sec )
<b>Other Parameter</b>		
Recommend Depth of Discharge	80% DoD	
Dimension ( W × D × H, mm )	440 × 540 × 133	710 × 540 × 133
Weight Approximate	44 kg	85 kg
Master LED Indicator	5LED ( SOC : 20% ~ SOC100% ) , 3LED ( working, alarming, protecting )	
Communication Port	CAN2.0, RS485	
IP Rating of Enclosure	IP20	
Operating Temperature	Charge : 0 ~ 55°C, Discharge : -20°C ~ 55°C	
Storage Temperature	0 ~ 35°C	
Relative Humidity	95%	
Altitude	≤2000 m	
Cycle Life	≥6000 ( 25°C ±2°C, 0.2C / 0.2C, 80%DOD, 70%EOL )	
Warranty Period <sup>[3]</sup>	5 years	
Installation	Wall-Mounted, Floor-Mounted ( Stacked ) , Rack-Mounted ( cabinet depth ≥600mm )	
Certification	UN38.3,MSDS	

[1] Test conditions : 25°C±2°C, at beginning of life, 0.2C charge & 0.2C discharge,100% DOD.

[2] The current is affected by temperature and SOC.

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

[4] Max. 32 pcs without external CAN-Box.



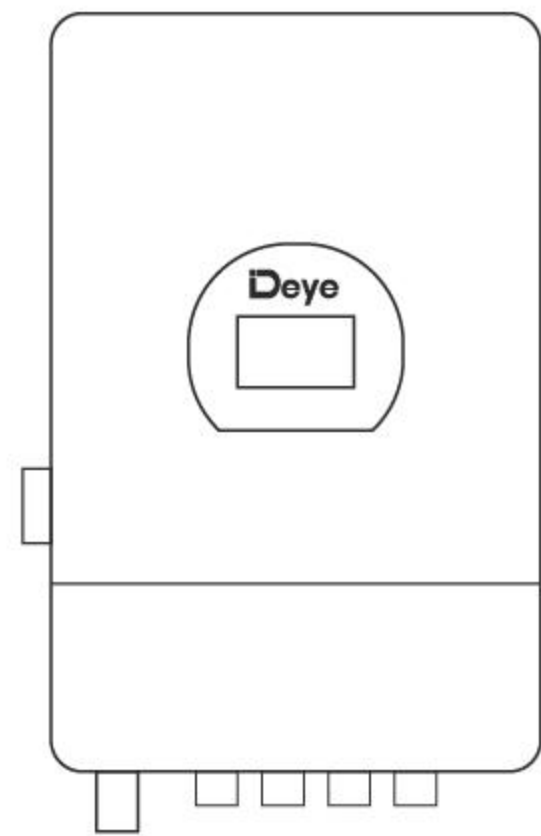
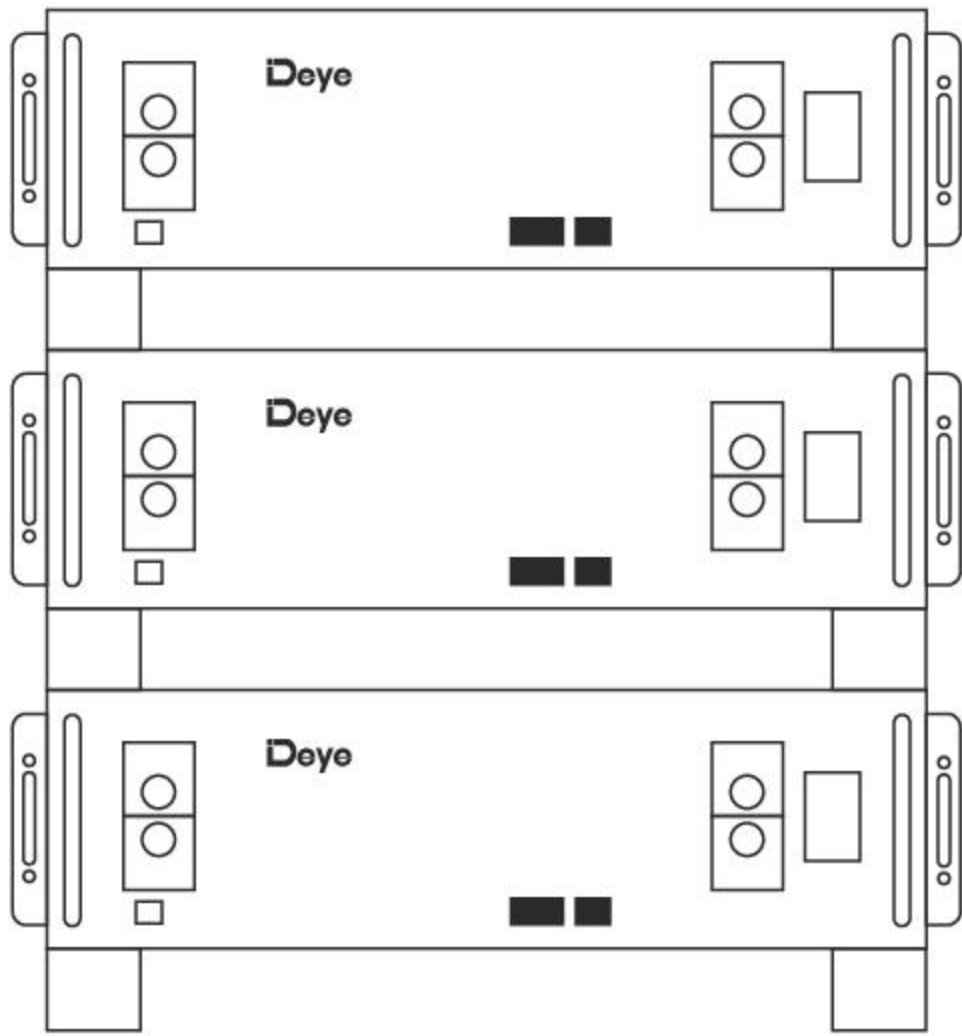
# Typical Application Scenarios

## Product Expansion

Battery backup time	SE-G5.1		
Inverter	2h	3h	4h
SUN 6KW SG 04LP1	3 units	4 units	5 units
SUN 6KW SG 03LP1	3 units	4 units	5 units
SUN 6KW SG 05LP1	3 units	4 units	5 units

SE-G5.1

SUN 6KW SG 04LP1

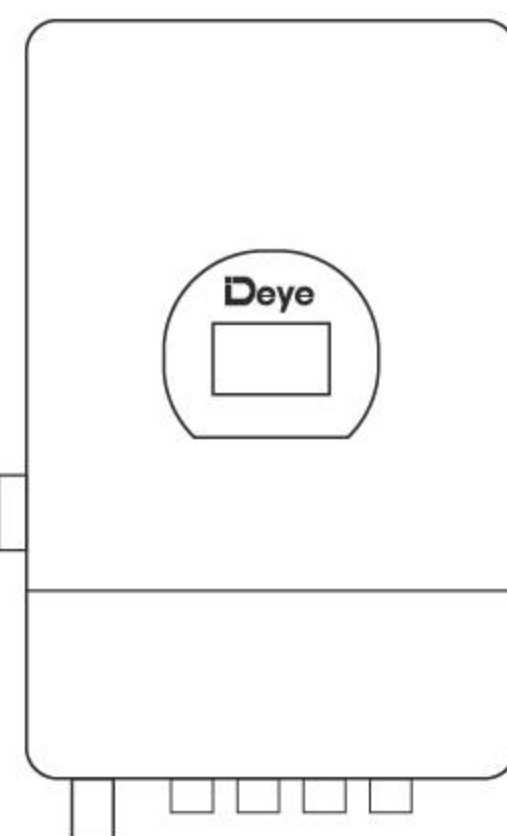
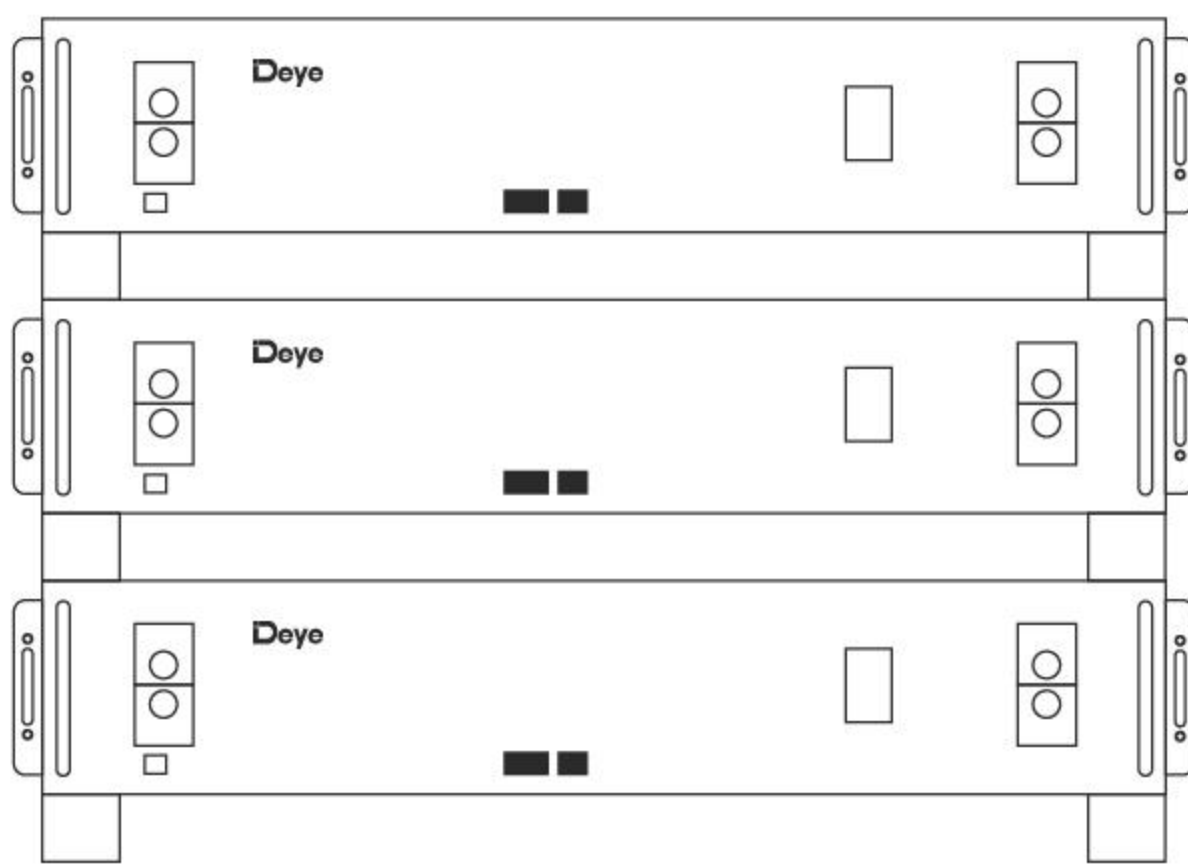


2hours

Battery backup time	SE-G10.2		
Inverter	2h	3h	4h
SUN 12KW SG 04LP3	3 units	4 units	5 units
SUN 12KW SG 02LP1	3 units	4 units	5 units
SUN 12KW SG 05LP3	3 units	4 units	5 units
SUN 20KW SG 05LP3	4 units	6 units	8 units

SE-G10.2

SUN 12KW SG 04LP3



2hours



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