

RESIDENTIAL ESS SOLUTION

SE-G5.1 & SE-G10.2



Easy Operation & Maintenance

- Battery module auto networking (No DIP switchs)
- 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

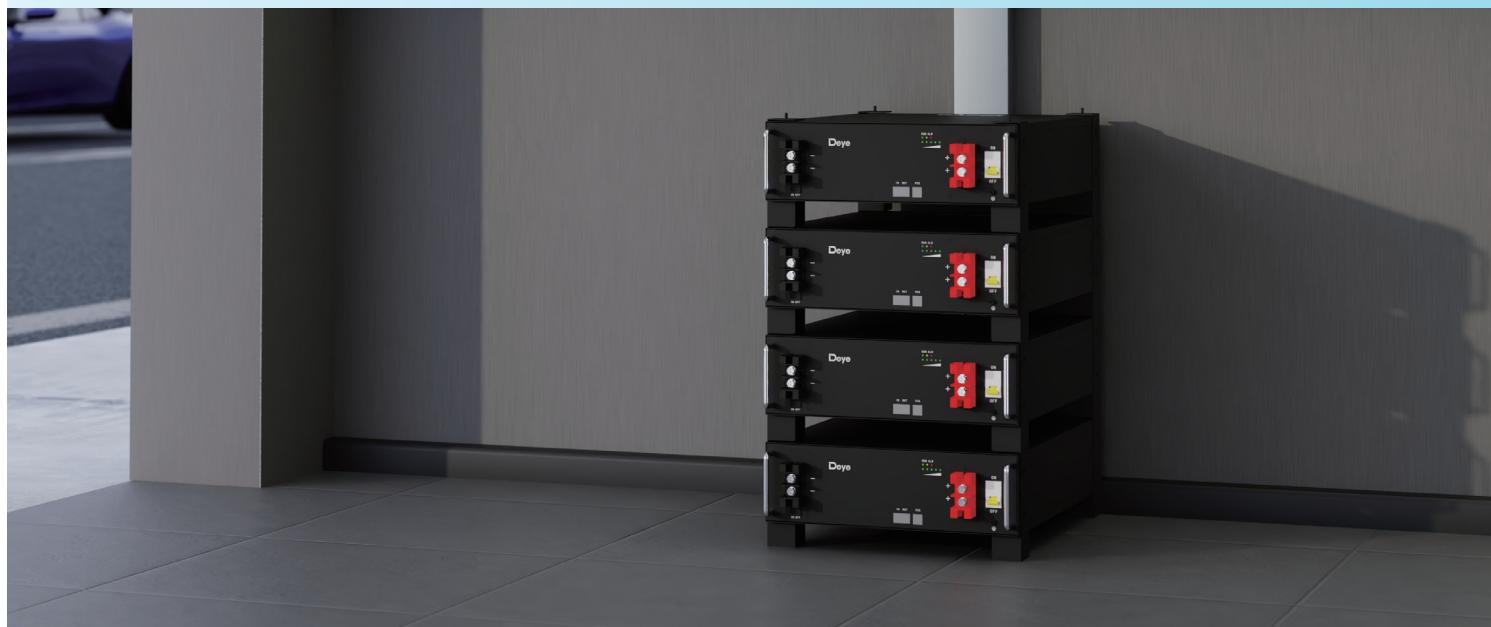
- Easy to expand, Max. 64 units in parallel (327kWh / 655kWh)
- Suited to residential and commercial applications for increasing the self-consumption ratio



Reliable

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

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Model	SE-G5.1	SE-G10.2
Battery Chemistry	LiFePO ₄	
Nominal Capacity ^[1]	100 Ah	200 Ah
Nominal Voltage	51.2V	
Operating Voltage	44.8 V ~ 57.6 V	
Nominal Energy ^[1]	5.12 kWh	10.24 kWh
Cell Configuration	1P16S	2P16S
Scalability ^[4]	Max. 64 pcs pack (327kWh) in parallel	
Charge Current ^[2]	Max. Continuous Peak	50 A 100 A (10 sec)
Discharge Current ^[2]	Max. Continuous Peak	50 A 100 A (10 sec)
Other Parameter	80% DoD	
Recommend Depth of Discharge	80% DoD	
Dimension (W × D × H, mm)	440 × 540 × 133	
Weight Approximate	44 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 ^[3]	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.

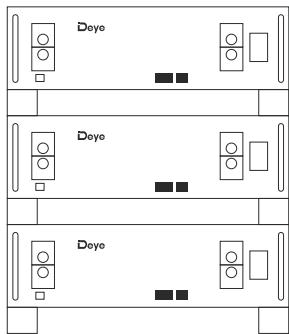
[4] Max. 32 pcs without external CAN-Box.

Typical Application Scenarios

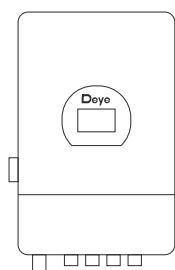
Product Expansion

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



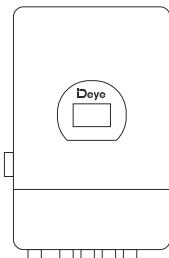
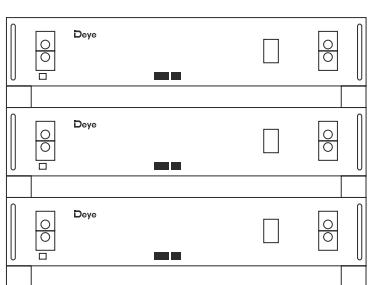
2hours

Battery backup time

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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