



RESIDENTIAL ESS SOLUTION

SE-G5.1 & SE-G10.2



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℃ to 55℃

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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	Max. 64 pcs pack (655kWh) in parallel
Charge Current ^[2]	50 A	100 A
	100 A (10 sec)	200 A(10 sec)
Discharge Current ^[2]	50 A	100 A
	100 A (10 sec)	200 A(10 sec)
Other Parameter	80% DoD	
Recommend Depth of Discharge	440 × 540 × 133	710 × 540 × 133
Dimension (W × D × H, mm)	44 kg	85 kg
Weight Approximate	5LED (SOC : 20% ~ SOC100%) , 3LED (working, alarming, protecting)	
Master LED Indicator	CAN2.0, RS485	
Communication Port	IP20	
IP Rating of Enclosure	Charge : 0 ~ 55°C, Discharge : -20°C ~ 55°C	
Operating Temperature	0 ~ 35°C	
Storage Temperature	95%	
Relative Humidity	≤2000 m	
Altitude	≥6000 (25°C±2°C, 0.2C / 0.2C, 80%DOD, 70%EOL)	
Cycle Life	5 years	
Warranty Period ^[3]	Wall-Mounted, Floor-Mounted (Stacked) , Rack-Mounted (cabinet depth ≥600mm)	
Installation	UN38.3,MSDS	
Certification		

[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.

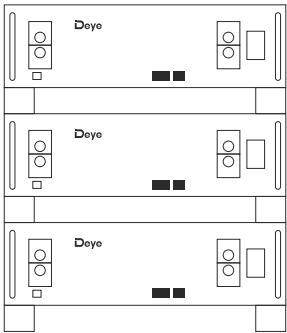
Typical Application Scenarios

Product Expansion

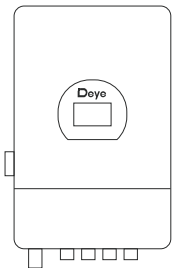
Battery backup time

Inverter	SE-G5.1		
	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

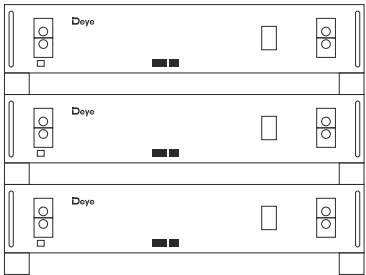


2hours

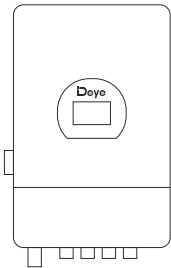
Battery backup time

Inverter	SE-G10.2		
	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



POWERING YOUR LIFE



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