RESIDENTIAL ESS SOLUTION

DEYE SPRING SE SERIES

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

Flexible Application

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

Safer

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

Reliable

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

⩾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		$LiFePO_4$	
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]	Max. Continuous	50 A	100 A
	Peak	100 A (10 sec)	200 A(10 sec)
Discharge Current[2]	Max. Continuous	50 A	100 A
	Peak	100 A (10 sec)	200 A(10 sec)
Other Parameter			
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 [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.

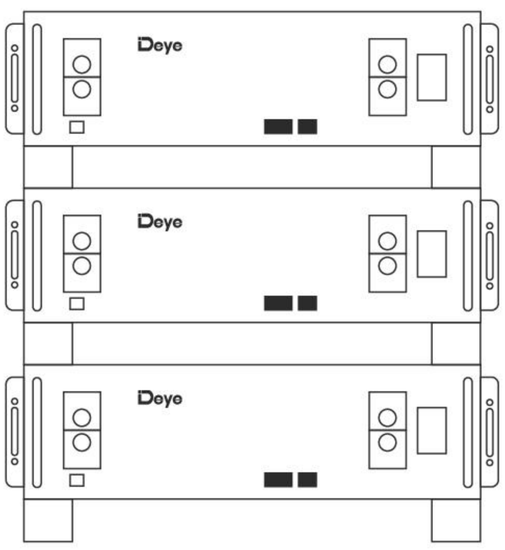
[3] Conditions apply, refer to Deye Warranty Letter.

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

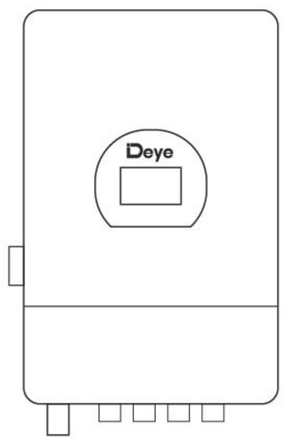
Typical Application Scenarios

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



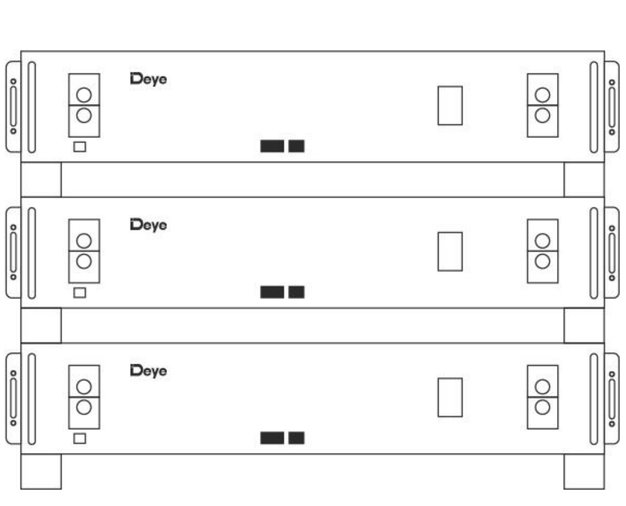
SUN 6KW SG 04LP1



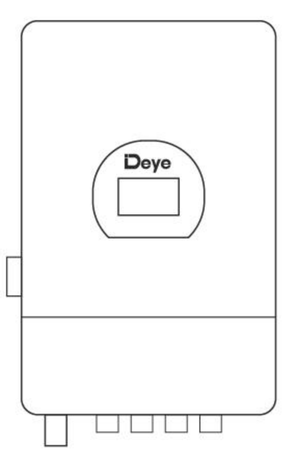
2hours

Battery backup time		**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

Deye

To Make ESS Better

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