Deye Residential ESS Solution

Deye SE-G5.1
Deye SE-G10.2





◆ **Safer**

Cobalt Free Lithium Iron Phosphate (LFP) Battery: Safety and long Lifespan, high efficiency and high power density. Intelligent BMS, providing complete protection.

◆ **Reliable**

Support high discharge power. IP20, natural cooling, wide temperature range : -20℃ to 55℃.

◆ **Flexible**

Modular design, easy to expand, Max. 64 units in parallel.
Suited to residential and commercial applications for increasing the self-consumption ratio.

◆ **Convenient**

Battery module auto networking, easy maintenance, support remotely monitoring and upgrade the firmware.

◆ **Eco-Friendly**

Use environmental protection materials, the whole module non-toxic, pollution-free.

◆ **Three Mounting Methods**

3U height standard design, support rack-mounted, wall-mounted, and floor-mounted, saving installation space.

Technical Data

Deye SE-G5.1
Deye SE-G10.2

—

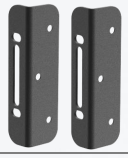
	Model		SE-G5.1	SE-G10.2
Main Parameter	Battery Chemistry		$LiFePO_4$	
	Nominal Capacity [1]		100 Ah	200 Ah
	Nominal Voltage		51.2 V	
	Operating Voltage		44.8 V ~ 57.6 V	
	Nominal Energy [1]		5.12 kWh	10.24 kWh
	Cell Configuration		1P16S	2P16S
	Scalability[4]		Max. 64 pcs pack (327kWh) in parallel	Max. 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		440 × 540 × 133 (W × D × H, mm)	700 × 540 × 133 (W × D × H, mm)
	Weight Approximate		45 kg	86 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℃, Discharge : -20℃ ~ 55℃	
	Storage Temperature		0 ~ 35℃	
	Relative Humidity		95%	
	Altitude		≤2000 m	
	Cycle Life		≥6000 (25℃±2℃, 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℃±2℃, 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.

Battery Pack Accessories

Deye SE-G5.1
Deye SE-G10.2

Model	Accessories Parts Description	Remark
3U-Lrfe-B	Battery Rack Fixed Ears and screws (Included)	Used for battery fixing with rack or cabinet.
SE-G5.1-BCable	Battery Parallel Cable (Included)	Battery power and communication parallel connection cable, and ground line.
3U-W-Bracket-B	Battery Wall-Mounted Brackets and screws (Included)	Simple wall hanging support.
SE-G5.1-PCable	Hybrid inverter Cable (Included)	Battery power and communication cable connect with hybrid inverter.
3U-Bracket-B	Battery Stack Brackets and screws (Included)	Simple stacking bracket, 1 unit including 4 pcs brackets, Max. stacking 4 floors.



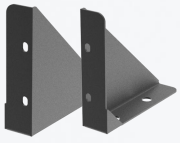
Model : 3U-Lrfe-B

Details : Pair of rack fixed ears used for battery fixing with rack or cabinet, included 6 pcs M4 screws, 4 sets of M6 screws and buckle nuts.



Model : SE-G5.1B-BCable

Details : Pair of 270mm 7AWG(SE-G5.1) or 4AWG(SE-G10.2) Power cable (Both ends are M6 copper terminals) and 250mm RJ45 communication cable for battery parallel, and 250mm 10AWG yellow-green ground cable.



Model : Battery Wall-Mounted Brackets

Details : Pair of simple wall hanging support, included 4 sets of M6 expansion screws.



Model : SE-G5.1B-PCable

Details : Pair of 7AWG(SE-G5.1) or 4AWG(SE-G10.2) battery power cable (one end is M6 copper terminal and the other end is M10 copper terminal) and RJ45 communication cable connect with hybrid inverter. The cable length can be customized based on customer requirements, default length is 1500mm.



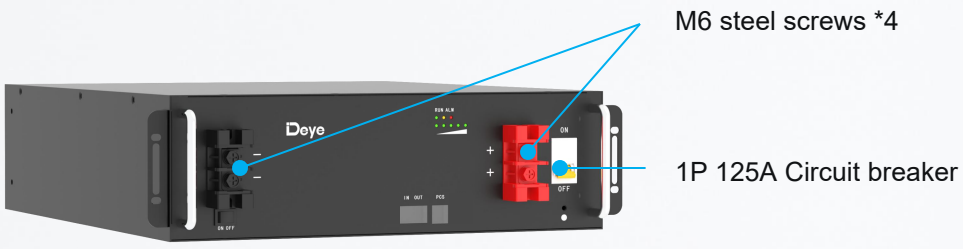
Model : 3U-Bracket-B

Details : Simple stacking bracket, height 180mm, 1 set including 4 pcs brackets and 8 pcs M4 screws, Max. stacking 4 floors.



Battery Structure

Deye SE-G5.1
Deye SE-G10.2



Wall-mounted method

Deye SE-G5.1
Deye SE-G10.2

