Deye Residential ESS Solution

Deye SE-G5.1
Deye SE-G10.2
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◆ **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 stack-mounted, saving installation space.

Technical Data

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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
	Charge Current [2] — Peak	100 A (10 sec)	200 A(10 sec)
	Discharge Current [2] — Max. Continuous	50 A	100 A
	Discharge Current [2] — 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)	710 × 540 × 133 (W × D × H, mm)
	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℃, 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.
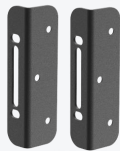[4] Max. 32 pcs without external CAN-Box.

Battery Pack Accessories

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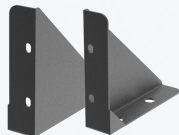| Model	Accessories Parts Description	Remark
3U-Lrfe-B	Battery Rack Fixed Ears and screws (Included)	Used for battery fixing with rack or cabinet.
SE-G5.1-BCable	Battery Parallel Cable (Included)	Battery power and communication parallel connection cable, and ground line.
3U-W-Bracket-B	Battery Wall-Mounted 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.It is a line used to connect batteries in parallel during stack installation.

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.
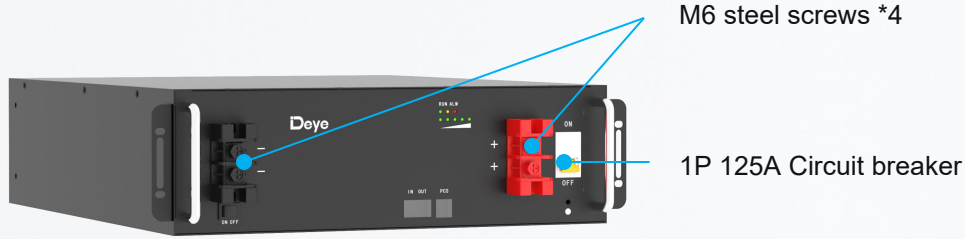
Model : 3U-Bracket-B

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

Battery Structure

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M6 steel screws *4

1P 125A Circuit breaker

Wall-mounted method

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4 sets of M6 screws and buckle nuts
(left side and right side)

2 simple wall hangers

4 sets of M6 stainless steel
expansion screws (left side and
right side)