

# 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°C to 55°C.

## ◆ 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



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

| Model              |                                  | SE-G5.1                                                                            | SE-G10.2                                |
|--------------------|----------------------------------|------------------------------------------------------------------------------------|-----------------------------------------|
| Main<br>Parameter  | Battery Chemistry                | LiFePO <sub>4</sub>                                                                |                                         |
|                    | Nominal Capacity <sup>[1]</sup>  | 100 Ah                                                                             | 200 Ah                                  |
|                    | Nominal Voltage                  | 51.2 V                                                                             |                                         |
|                    | Operating Voltage                | 44.8 V ~ 57.6 V                                                                    |                                         |
|                    | Nominal Energy <sup>[1]</sup>    | 5.12 kWh                                                                           | 10.24 kWh                               |
|                    | Cell Configuration               | 1P16S                                                                              | 2P16S                                   |
|                    | Scalability <sup>[4]</sup>       | Max. 64 pcs pack ( 327kWh ) in parallel                                            | Max. 64 pcs pack ( 655kWh ) in parallel |
|                    | Charge Current <sup>[2]</sup>    | Max. Continuous                                                                    | 50 A                                    |
|                    |                                  | Peak                                                                               | 100 A (10 sec )                         |
|                    | Discharge Current <sup>[2]</sup> | Max. Continuous                                                                    | 50 A                                    |
|                    |                                  | Peak                                                                               | 100 A (10 sec )                         |
| Other<br>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°C,<br>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 <sup>[3]</sup>   | 5 years                                                                            |                                         |
|                    | Installation                     | Wall-Mounted, Floor-Mounted ( Stacked ) ,<br>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.

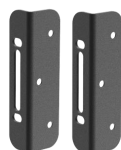
[4] Max. 32 pcs without external CAN-Box.

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



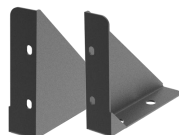
## Model : 3U-Lrfe-B

**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



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

—



## Wall-mounted method

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

—

