

# BOS-G



## ◆ Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.

## ◆ Safe and reliable

Cathode material is made from LiFePO<sub>4</sub> with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

## ◆ Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

## ◆ Eco-friendly

The whole module is non-toxic, non-polluting and environmentally friendly.

## ◆ Flexible configuration

Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, wifi upgrade(optional), remote up grade(Compatible with Deye inverter).

## ◆ Wide temperature

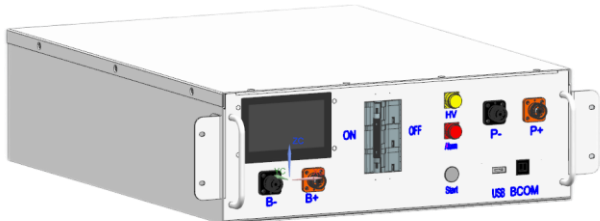
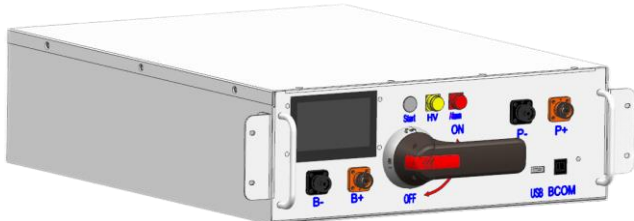
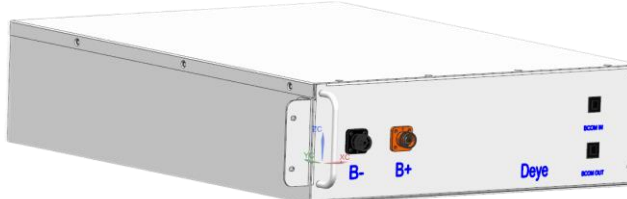
Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

**Deye**

Stock Code: 605117.SH

| Model                                    |                        | B05-G                                                              |                            |                             |
|------------------------------------------|------------------------|--------------------------------------------------------------------|----------------------------|-----------------------------|
| Main Parameter                           |                        |                                                                    |                            |                             |
| Cell Chemistry                           |                        | LiFePO4                                                            |                            |                             |
| Module Energy(kWh)                       |                        | 5.12                                                               |                            |                             |
| Module Nominal Voltage (V)               |                        | 51.2                                                               |                            |                             |
| Module Capacity(Ah)                      |                        | 100                                                                |                            |                             |
| Battery Module Qty in series. (Optional) |                        | 4<br>(Min)                                                         | 8<br>(Standard US Cluster) | 12<br>(Standard EU Cluster) |
| System Nominal Voltage (V)               |                        | 204.8                                                              | 409.6                      | 614.4                       |
| System Operating Voltage (V)             |                        | 180~230                                                            | 359~460                    | 538~691                     |
| System Energy (kWh)                      |                        | 20.48                                                              | 40.96                      | 61.44                       |
| System Usable Energy(kWh)                |                        | 18.5                                                               | 36.86                      | 55.29                       |
| Charge/Discharge Current (A)             | Recommend              | 50                                                                 |                            |                             |
|                                          | Max                    | 100                                                                |                            |                             |
|                                          | Peak<br>(2 mins, 25°C) | 125                                                                |                            |                             |
| Working Temperature(°C)                  |                        | Charge: 0~50/Discharge: -20~55                                     |                            |                             |
| Status Indicator                         |                        | Yellow: Battery High Voltage Power On<br>Red: Battery System Alarm |                            |                             |
| Communication Port                       |                        | CAN2.0/RS485                                                       |                            |                             |
| Humidity                                 |                        | 5~85%RH                                                            |                            |                             |
| Altitude                                 |                        | ≤2000m                                                             |                            |                             |
| IP Rating of Enclosure                   |                        | IP20                                                               |                            |                             |
| Dimension (W/D/H,mm)                     |                        | 580*590*1615                                                       |                            | 580*590*2200                |
| Weight Approximate (kg)                  |                        | 258                                                                | 434                        | 628                         |
| Installation Location                    |                        | Rack Mounting                                                      |                            |                             |
| Storage Temperature(°C)                  |                        | 0~35                                                               |                            |                             |
| Recommend Depth of Discharge             |                        | 90%                                                                |                            |                             |
| Cycle Life                               |                        | 25±2°C, 0.5C/0.5C,EOL70%≥6000                                      |                            |                             |
| Warranty                                 |                        | 10years                                                            |                            |                             |
| Certification                            |                        | CE, IEC62619, UL1973, UL9540A, UN38.3,FCC,CEC,UKCA,                |                            |                             |

- 1 DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- 2 The current is affected by temperature and SOC.
- 3 The warranty is due whichever reached first of warranty period or life cycle power.

| Model                                                                                | Description                                                                          |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| HVB750V/100A-EU                                                                      | High Voltage Battery cluster control box conforming to European or British Standards |                                                                                      |
| Operating Voltage                                                                    | 120 ~ 750Vdc                                                                         |    |
| Nomina Charge/Discharge Current                                                      | 100A                                                                                 |                                                                                      |
| Max.Charge/Discharge Current                                                         | 125A                                                                                 |                                                                                      |
| DC Input Rating                                                                      | 12±2%V/4.15A                                                                         |                                                                                      |
| Operating Temperature Range                                                          | -20~55°C                                                                             |                                                                                      |
| Ingress Protection                                                                   | IP20                                                                                 |                                                                                      |
| Dimension (W/D/H)                                                                    | 440*565*150mm                                                                        |                                                                                      |
| Weight Approximate                                                                   | 15.5kg                                                                               |                                                                                      |
| HVB750V/100A-US                                                                      | High Voltage Battery cluster control box conforming to North American Standard       |                                                                                      |
| Operating Voltage                                                                    | 120 ~ 750Vdc                                                                         |    |
| Nominal Charge/Discharge Current                                                     | 100A                                                                                 |                                                                                      |
| Max.Charge/Discharge Current                                                         | 125A                                                                                 |                                                                                      |
| DC Input Rating                                                                      | 12±2%V/4.15A                                                                         |                                                                                      |
| Operating Temperature Range                                                          | -20~55°C                                                                             |                                                                                      |
| Ingress Protection                                                                   | IP20                                                                                 |                                                                                      |
| Dimension (W/D/H)                                                                    | 440*565*150mm                                                                        |                                                                                      |
| Weight Approximate                                                                   | 17kg                                                                                 |                                                                                      |
| High voltage box Standard configuration:                                             |                                                                                      |                                                                                      |
| ① 120 ohm terminal resistance                                                        |                                                                                      |                                                                                      |
| ② 140mm communication cable                                                          |                                                                                      |                                                                                      |
| ③ 220mm power cable                                                                  |                                                                                      |                                                                                      |
| ④ 1.5m power cable (US Version)<br>2.1m power cable (EU Version)                     |                                                                                      |                                                                                      |
|   |                                                                                      |                                                                                      |
| BOS-GM5.1                                                                            | 5.12 kwh battery module                                                              |                                                                                      |
| Battery Type                                                                         | LiFePO4(LFP)                                                                         |  |
| Nominal Voltage                                                                      | 51.2Vdc                                                                              |                                                                                      |
| Nominal Capacity                                                                     | 100Ah                                                                                |                                                                                      |
| Nominal Energy                                                                       | 5.12kWh                                                                              |                                                                                      |
| Nominal Charge/Discharge Current                                                     | 100A                                                                                 |                                                                                      |
| Max.Charge/Discharge Current                                                         | 125A                                                                                 |                                                                                      |
| Charge Temperature                                                                   | 0~50°C                                                                               |                                                                                      |
| Discharge Temperature                                                                | -20°C ~ 55°C                                                                         |                                                                                      |
| Storage Temperature                                                                  | 0°C ~ 35°C                                                                           |                                                                                      |
| Ingress Protection                                                                   | IP20                                                                                 |                                                                                      |
| Dimension (W/D/H)                                                                    | 440*570*133mm                                                                        |                                                                                      |
| Weight Approximate                                                                   | 44kg                                                                                 |                                                                                      |
| Battery module Standard configuration:                                               |                                                                                      |                                                                                      |
| ① 110mm communication cable                                                          |                                                                                      |                                                                                      |
| ② 200mm power cable                                                                  |                                                                                      |                                                                                      |
|  |                                                                                      |                                                                                      |
| EPCable5.0(Optional)                                                                 | Standard 5-meter power cable connected to the positive pole of the external PCS      |                                                                                      |
| 1000V/4AWG cable                                                                     |  |                                                                                      |
| ENCable5.0(Optional)                                                                 | Standard 5-meter power cable connected to the negative pole of the external PCS      |                                                                                      |
| 1000V/4AWG cable                                                                     |  |                                                                                      |



| Model                   | Description                                                     |
|-------------------------|-----------------------------------------------------------------|
| EPWR Cable5.0(Optional) | Standard 5-meter cable connected to external 12VDC power supply |



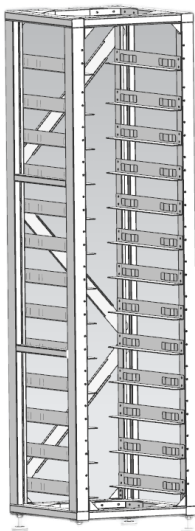
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|-------------------------|-----------------------------------------------------------------------|
| ECOM Cable5.0(Optional) | Standard 5-meter communication cable connected to the external device |
|-------------------------|-----------------------------------------------------------------------|



|                    |                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------|
| 3U-HRACK(Optional) | Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box |
|--------------------|------------------------------------------------------------------------------------------------------|

Dimension (W/D/H)  
Weight Approximate

580\*590\*2200mm  
85kg



|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| 3U-LRACK(Optional) | Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box |
|--------------------|-----------------------------------------------------------------------------------------------------|

Dimension (W/D/H)  
Weight Approximate

580\*590\*1615mm  
65kg

