

# BOS-G60H



## ◆ Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance. Support USB upgrade, wifi upgrade(optional), remote upgrade(Compatible with Sol-Ark inverter).

## ◆ Safe and reliable

Cathode material is made from LiFePO4 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.

## ◆ Wide temperature

Working temperature range is from  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , with excellent discharge performance and cycle life.

# Technical Data

|       |          |
|-------|----------|
| Model | BOS-G60H |
|-------|----------|

## 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)      | 12   |     |
| System Nominal Voltage (V)                   | 614.4  |     |
| System Operating Voltage (V)                 | 480~700.8  |     |
| System Energy (kWh)                          | 61.44  |     |
| System Usable Energy (kWh) <sup>1</sup>      | 55.29  |     |
| Charge/Discharge <sup>2</sup><br>Current (A) | Recommend  | 50  |
|  | Nominal  | 100 |
|  | Peak Discharge<br>(2 mins, 25°C)                                   | 125 |
| Working Temperature (°C)                     | Charge: 0~55/Discharge: -20~55                                     |     |
| Status Indicator                             | Yellow: Battery High Voltage Power On Red:<br>Battery System Alarm |     |
| Communication Port                           | CAN2.0/ RS485  |     |
| Humidity                                     | 5%~85%RH   |     |
| Altitude                                     | ≤2000m   |     |
| IP Rating of Enclosure                       | IP20   |     |
| Dimension (W/D/H,mm)                         | 589*590*2240   |     |
| Weight Approximate (kg)                      | 596  |     |
| 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 <sup>3</sup>                        | 10 years   |     |
| Certification                                | UL1973 /UL9540A/UN38.3   |     |

1. DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2. The current is affected by temperature and SOC.

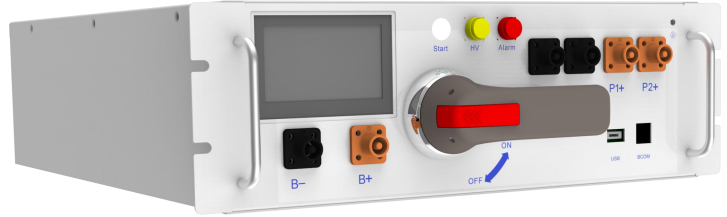
3. The warranty is due whichever reached first of warranty period or life cycle power.

# System Components

| Model | Description |
|-------|-------------|
|-------|-------------|

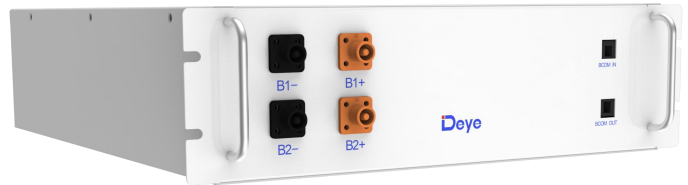
BOS-G-PDU-NA High Voltage Battery cluster control box conforming to North American Standard

|                                  |               |
|----------------------------------|---------------|
| 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      | -20~65°C      |
| Ingress Protection               | IP20          |
| Dimension (W/D/H)                | 440*570*150mm |
| Weight Approximate               | 17kg          |



BOS-GM5.1-D 5.12 kwh battery module

|                                  |               |
|----------------------------------|---------------|
| Battery Type                     | LiFePO4(LFP)  |
| Nominal Voltage                  | 51.2Vdc       |
| Rated Capacity                   | 100Ah         |
| Rated Energy                     | 5.12kWh       |
| Nominal Charge/Discharge Current | 100A          |
| Peak.Discharge Current           | 125A          |
| Charge Temperature               | 0~55°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          |



3U-HCabinet(Optional) Standard 19inch rack can install 12 pcs batteries and 1 pcs High Voltage Battery cluster control box  
 Dimension (W/D/H) 530\*660\*2286mm  
 Weight Approximate 80kg

