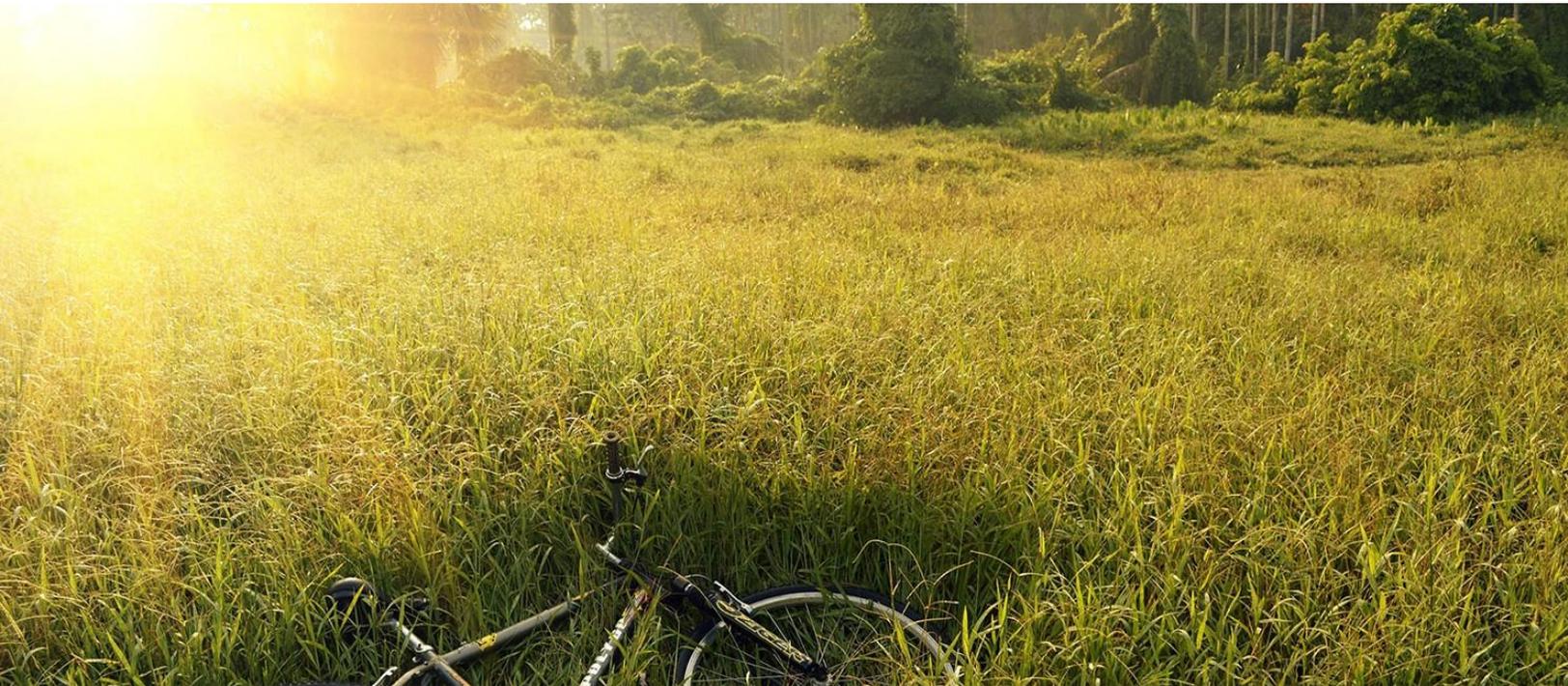


# SE-G5.3



#### ◆ 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, Max. capacity of 340kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.

#### ◆ Convenient

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

#### ◆ Eco-Friendly

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



Stock Code: 605117.SH

Model		SE-G5.3
<b>Main Parameter</b>		
Battery Chemistry	LiFePO <sub>4</sub>	
Capacity (Ah)	104	
Scalability	Max. 64 pcs pack (340kWh) in parallel (Max. 32 pcs no external setup)	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Energy (kWh)	5.32	
Usable Energy (kWh) <sup>[1]</sup>	4.79	
Charge/Discharge Current (A)	Recommend <sup>[2]</sup>	50
	Max. <sup>[2]</sup>	100
	Peak	150 (2mins,25°C)
<b>Other Parameter</b>		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	440*133*560	
Weight Approximate(kg)	44	
Master LED Indicator	5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)	
IP Rating of Enclosure	IP20	
Operating Temperature	Charge:0~55°C (Optional heating) / Discharge:-20°C~55°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C±2°C, 0.3C/0.3C, 90%DOD, 70%EOL)	
Installation	19-inch standard rack (depth ≥600mm / with), Floor-Mounted, Wall-Mounted,	
Communication Port	CAN2.0, RS485	
Warranty Period <sup>[3]</sup>	5 years	
Energy Throughput <sup>[3]</sup>	16MWh@70%EOL	
Certification	CE, IEC62619, 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 energy throughput.

## Introduction

This series lithium iron phosphate battery is one of new energystorage products developed and produced by Deye, it can be used to support reliable power for various types of equipment and systems.

This series is especially suitable for application scene of high power,limited installation space, restricted load-bearing and long cycle life.

This series battery has built-in BMS ( Battery Management System ), which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging to extend cycle life.

Multiple batteries can connect in parallel for larger capacity and longer power supporting duration requirements.

Model	Accessories Parts Description	Remark
3U-Lrfe-B	Battery Rack Fixed Ears and screws (Included)	Used for battery fixing with 19inch rack or cabinet.
SE-G5.3-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-G5.3-PCable	Hybrid inverter Cable (Included)	Battery power and communication cable connect with hybrid inverter.
3U-Bracket-B	Battery Stack Brackets and screws (Optional)	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 19inch rack or cabinet, included 6 pcs M4 screws, 4 sets of M6 screws and buckle nuts.



**Model: SE-G5.3-BCable**

**Details:** Pair of 270mm 4AWG Power cable (Both ends are M8 copper terminals) and 250mm RJ45 communication cable for battery parallel, and 250mm 10AWG yellow-green ground line.



**Model: Battery Wall-Mounted Brackets**

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



**Model: SE-G5.3-PCable**

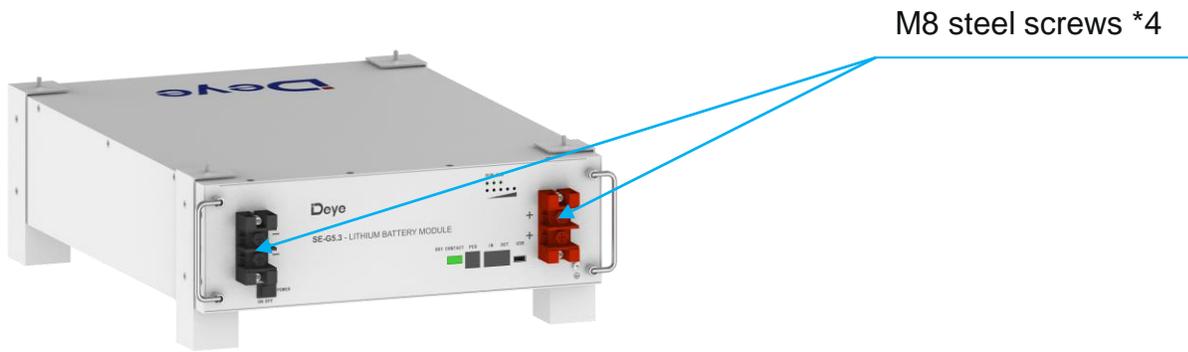
**Details:** Pair of 4AWG battery power cable (Both ends are M8 copper terminals) and RJ45 communication cable connect with hybrid inverter. The cable length can be customized based on customer requirements, default length is 1500mm.



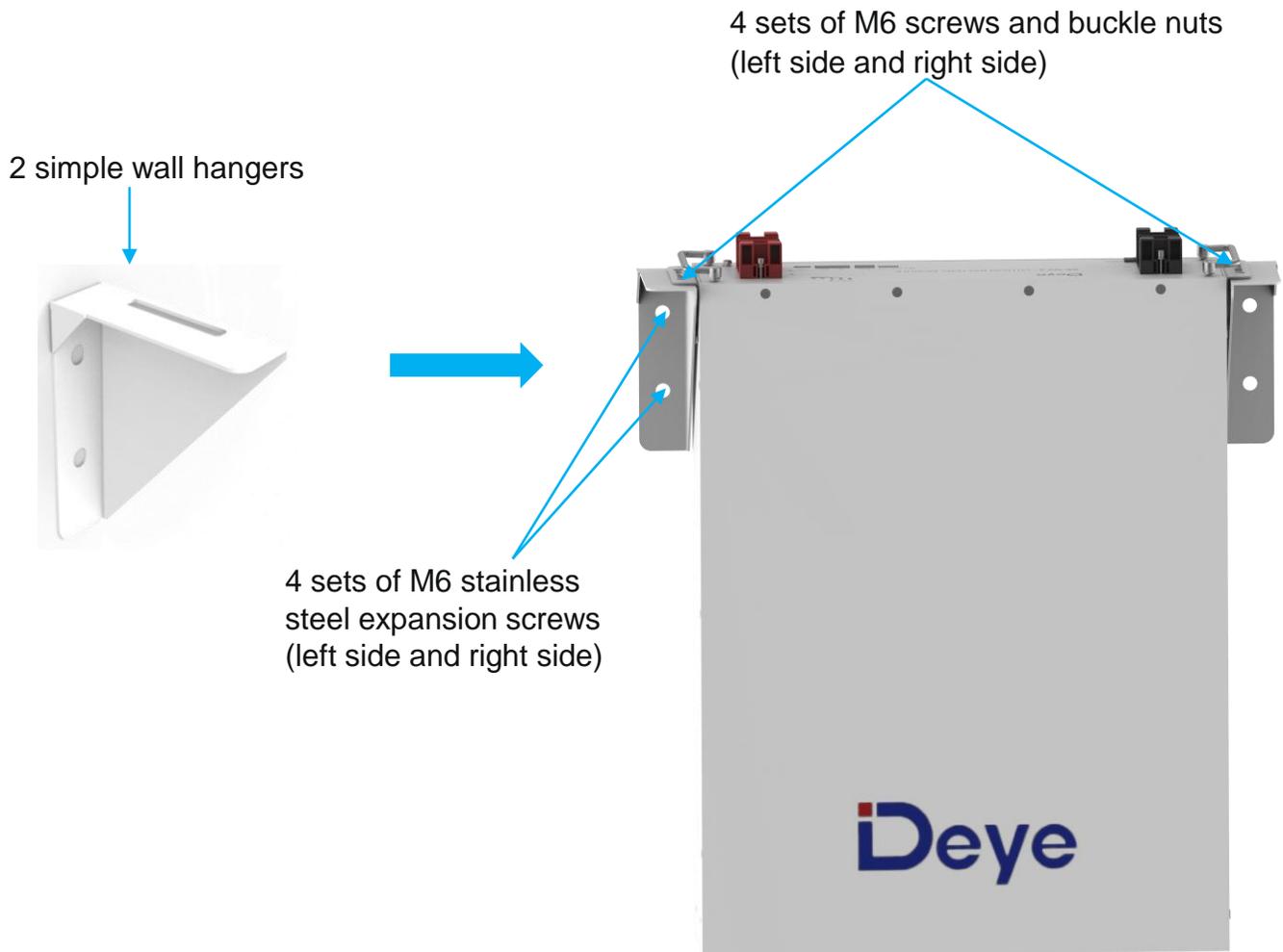
**Model: 3U-Bracket-B**

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

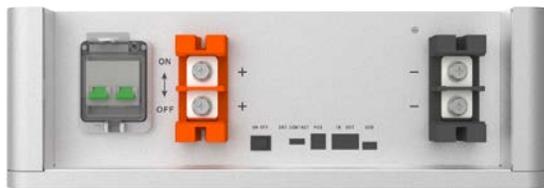




## Wall-mounted method



# RW-F10.6



#### ◆ Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan and high-energy density. Low Voltage safety connection.

#### ◆ High performance

Maximum support 1C charge and 1.2C discharge.  
Maximum 6000 cycles at 90% DOD, and 10 years standard warranty.

#### ◆ Reliable

Built-in Intelligent BMS, providing complete protection. Natural cooling, IP20, wide temperature range: -20°C to 55°C.

#### ◆ Flexible

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 340kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.

#### ◆ Convenient

Battery module auto networking(No DIP switch code), easy maintenance, support Deye remotely monitoring and upgrade.

#### ◆ Eco-Friendly

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

#### ◆ Two Mounting Methods

Flat design, Wall-mounted with Wall Bracket, Floor Stand with removable base, saving installation space.

**Deye**

Stock Code: 605117.SH

Model		RW-F10.6
<b>Main Parameter</b>		
Battery Chemistry	LiFePO <sub>4</sub>	
Built-in Circuit Breaker	125A 2P, 60Vdc	
Capacity (Ah)	208	
Scalability	Max. 32 pcs pack (Max.340kWh) in parallel	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2 ~ 57.6	
Nominal Energy (kWh)	10.64	
Usable Energy (kWh) <sup>[1]</sup>	9.58	
Charge/Discharge Current (A) <sup>[2]</sup>	Recommend	Charge: 104 / Discharge: 104
	Max.	Charge: 200 / Discharge: 240
	Peak(25°C)	300(2mins)
<b>Other Parameter</b>		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	600*750*200(Without hanging board)	
Weight Approximate(kg)	99	
Master LED Indicator	LED(SOC:20%~SOC100% and working state)	
IP Rating of Enclosure	IP20	
Operating Temperature	Charge: 1~53°C / Discharge: -20°C~53°C	
Recommend Operating Temperature	15°C ~ 35°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤3000m	
Cycle Life	≥6000(25°C±2°C,0.5C/1C,90%DOD,70%EOL)	
Installation	Wall-Mounted, Floor-Mounted	
Communication Port	CAN2.0, RS485	
Warranty Period <sup>[3]</sup>	5 years	
Energy Throughput	16MWh(25°C, 0.5C/1C, 70%EOL)	
Certification	UN38.3, MSDS,CE,CB	

[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] Conditions apply, refer to Deye Warranty Letter.

## Introduction

This series lithium iron phosphate battery is one of new energy storage products developed and produced by Deye, it can be used to support reliable power for various types of equipment and systems.

This series is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life.

This series has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging to extend cycle life. Multiple batteries can connect in parallel for larger capacity and longer power supporting.

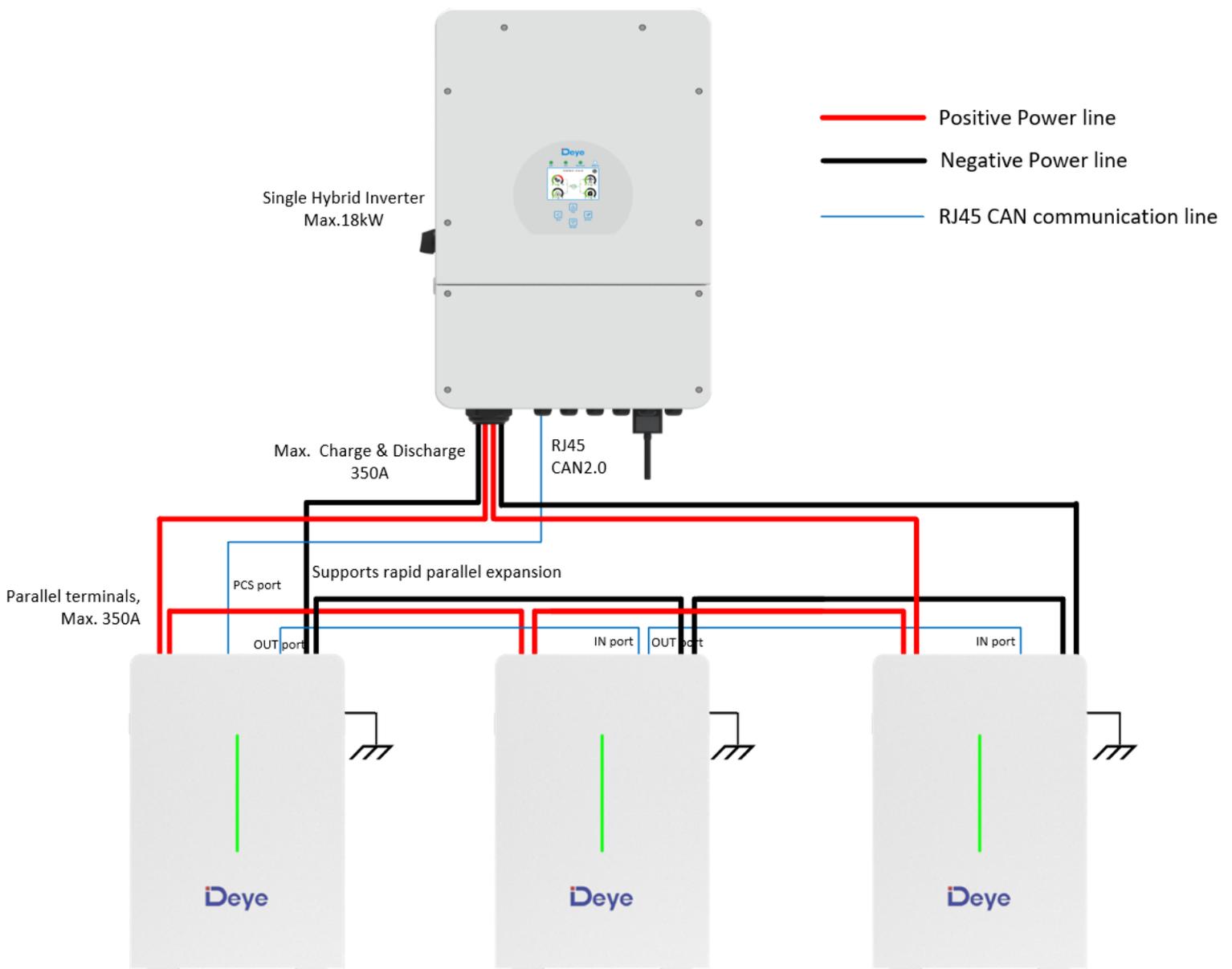


Front view

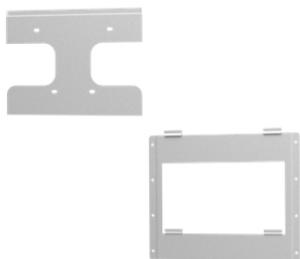


Top view

## System Topology Reference



Model	Accessories Parts Description	Remark
RW-F10.6-Hanging Board	Battery Hanging Board (Included)	Used for battery fixing on the wall
RW-F10.6-PCable	Hybrid inverter Cable (Included)	Battery power and communication cable connect with hybrid inverter
RW-F10.6-Fixed support	Fixed supports (Included)	When floor-mounted, fixing the battery to the wall
RW-F10.6-Base	Base (Included)	It has been installed on RW-F10.6.



**Model: RW-F10.6-Hboard**

**Details:** 3kg(Appr.)



**Model: RW-F10.6-PCable1500**

**Details:** Pair of 2/0AWG DC power cable (two end with M10 copper terminals) and RJ45 communication cable connect with hybrid inverter. The default length is 1500mm.



**Model: RW-F10.6-Fixed support**

**Details:** When floor-mounted, use these fixed supports to fixing the battery to the wall.



**Model: RW-F10.6-Base**

**Details:** It has been installed on RW-F10.6.

# 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.

Model	BOS-GX(X=3,4,5,6,7,8,9,10,11,12)									
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Main Parameter										
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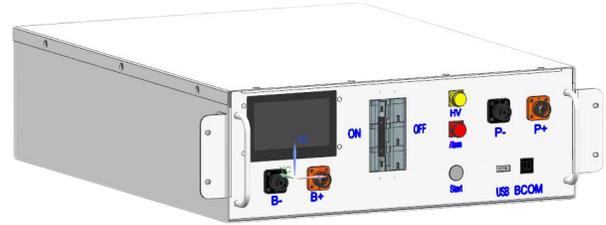
Cell Chemistry		LiFePO4								
Module Energy (kWh)		5.12								
Module Nominal Voltage (V)		51.2								
Module Capacity (Ah)		100								
Battery Module Number	BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9	10	11	12
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
System Operating Voltage (V)	124.8~175.2	166.4~233.6	208~292	249.6~350.4	291.2~408.8	332.8~467.2	374.4~525.6	416~584	457.6~642.4	499.2~700
System Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Usable Energy (kWh) <sup>1</sup>	13.82	18.43	23.04	27.64	32.25	36.86	41.47	46.08	50.68	55.29
Rated DC Power	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
Charge/Discharge <sup>2</sup> Current (A)	Recommend		50							
	Nominal		100							
	Peak Discharge (2 mins, 25°C)		125							
Working Temperature (°C)		Charge: 0~55/Discharge: -20~55								
Status Indicator		Yellow: Battery High Voltage Power On 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)		530*602*1629					530*602*2219			
Weight Approximate (kg)		420					610			
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		CE/IEC62619 /VDE2510-50/ UL1973 /UL9540A/UN38.3								

- DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- The current is affected by temperature and SOC.
- The warranty is due whichever reached first of warranty period or life cycle power.
- Made in China.

Model	Description
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HVB750V/100A-EU High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage	120~750Vdc
Nominal Charge/Discharge Current	100A
Max.Charge/Discharge Current	125A
DC Input Rating	12±2%/4.15A
Operating Temperature Range	-20~65°C
Ingress Protection	IP20
Dimension (W/D/H)	440*570*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%/4.15A
Operating Temperature Range	-20~65°C
Ingress Protection	IP20
Dimension (W/D/H)	440*570*150mm
Weight Approximate	17kg



High voltage box Standard configuration:

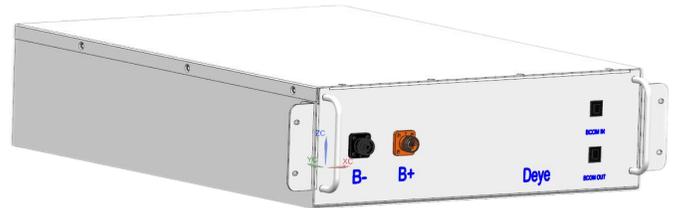
- ① 120 ohm terminal resistance
- ② 140mm communication cable
- ③ 220mm power cable
- ④ 1.5m power cable (US Version)  
2.1m power cable (EU Version)
- ⑤ Power plug



BOS-GM5.1

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



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
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EPWR Cable5.0(Optional)

Standard 5-meter cable connected to external 12VDC power supply



ECOM Cable5.0(Optional)

Standard 5-meter communication cable connected to the external device

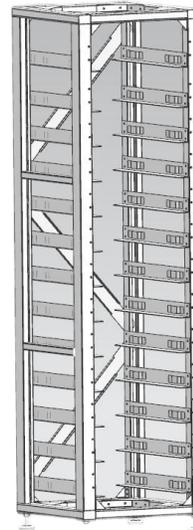


3U-HRACK(Optional)

Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box

Dimension (W/D/H)  
Weight Approximate

589\*590\*2240mm  
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

589\*590\*1640mm  
65kg

