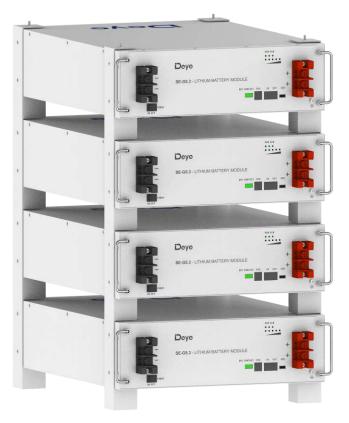
SE-G5.3





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.



Main Parameter Battery Chemistry LIFePO4 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) I ¹ 4.79 Recommend Pack 50 Charge/Discharge Current (A) Max. 2 Peak 150 (2mins.25°C) Other Parameter Recommend Depth of Discharge Peak 150 (2mins.25°C) Other Parameter (kg) 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 \$6000(25°C±2°C, 0.3C(0.3C, 90%DOD, 70%EOL) Installation 19-inch standard rack	Model		SE-G5.3		
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) I ¹¹ 4.79 Charge/Discharge Current (A) Max. I ²¹ 100 Peak 150 (zmins,25°C) Other Parameter 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 ≤0000m 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 I ^{SI}	Main Parameter				
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Nominal Voltage (V) 51.2 Operating Voltage(V) 43.2-57.6 Energy (kWh) 5.32 Usable Energy (kWh) (II) 4.79 Charge/Discharge Current (A) Recommend I≥I 50 Max. [P] 100 Peak 150 (2mins,25°C) Other Parameter 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 [8] 10 years	Capacity (Ah)		104		
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Energy (kWh) 5.32 Usable Energy (kWh) 1	Nominal Voltage (V)		51.2		
Usable Energy (kWh) ^[1] 4.79 Charge/Discharge Current (A) Recommend ^[2] 50 Max. ^[2] 100 Peak 150 (2mins,25°C) Other Parameter 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 ^[8] 10 years	Operating Voltage(V)		43.2~57.6		
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Current (A) Max. 15 100 Peak 150 (2mins,25°C) Other Parameter 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 [3] 10 years		Recommend [2]	50		
Other Parameter 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 (3) 10 years		Max. [2]	100		
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 [3] 10 years	,	Peak	150 (2mins,25°C)		
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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 [3] 10 years	Recommend Depth of Discharge		90%		
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 [3] 10 years	Dimension (W/H/D, mm)		440*133*560		
IP Rating of Enclosure 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 [3]	Weight Approximate(kg)		44		
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 [3] 10 years	Master LED Indicator		5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)		
Storage Temperature 0° C~35°CHumidity 5% ~95%Altitude≤2000mCycle Life≥6000(25°C±2°C, 0.3C/0.3C, 90%DOD, 70%EOL)Installation19-inch standard rack (depth ≥600mm / with), Floor-Mounted, Wall-Mounted,Communication PortCAN2.0, RS485Warranty Period [3]10 years	IP Rating of Enclosure		IP20		
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 [3] 10 years	Operating Temperature		Charge:0∼55°C (Optional heating) / Discharge:-20°C∼55°C		
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 [3] 10 years	Storage Temperature		0°C∼35°C		
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 [3] 10 years	Humidity		5%~95%		
Installation 19-inch standard rack (depth ≥600mm / with), Floor-Mounted, Wall-Mounted, Communication Port CAN2.0, RS485 Warranty Period [3] 10 years	Altitude		≤2000m		
Communication Port CAN2.0, RS485 Warranty Period [3] 10 years	Cycle Life		≥6000(25°C±2°C, 0.3C/0.3C, 90%DOD, 70%EOL)		
Warranty Period [3] 10 years	Installation		19-inch standard rack (depth ≥600mm / with), Floor-Mounted, Wall-Mounted,		
	Communication Port		CAN2.0, RS485		
Energy Throughput [3] 16MWh@70%EOL	Warranty Period [3]		10 years		
<u> </u>	Energy Throughput [3]		16MWh@70%EOL		
Certification CE, IEC62619, UN38.3	Certification		CE, IEC62619, UN38.3		

 $^{[1] \} DC \ Usable \ Energy, \ test \ conditions: 90\% \ DOD, \ 0.3C \ charge \ \& \ discharge \ at \ 25^{\circ}C. \ System \ usable \ energy \ may \ vary \ due \ to \ system \ configuration \ parameters.$

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.

^[2] The current is affected by temperature and SOC.

^[3] The warranty is due whichever reached first of warranty period or energy throughput.

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.
	(Optional)	



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

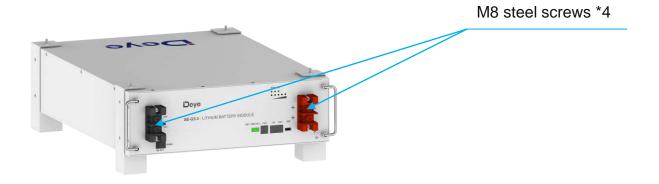
Details: Pair of 4AWG battery power cable (Both ends are M8 copper terminals) and RJ45 communication cable connect with hybrid inverter. The cable length can be customized based on customer requirements, default length is 1500mm.



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