

To Make ESS Better

NINGBO DEYE ESS TECHNOLOGY Co., Ltd.

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Note: The technical data above mentioned may be updated or revised due to product development. The data in this brochure is subject to change without notice. The latest datasheet and catalogue can be acquired via saless@deye.com.cn

Ver: 1.0 2023



World-leading Energy Storage System Provider

Stock Code: 605117.SH

Choose Deye — Choose a Green and Healthy Life



About Deye



China Stock Code: 605117

- Ningbo Deye Technology Co., Ltd. is a large scale manufacturing technology enterprise integrating R&D,design,production,sales and services.
- Deye has four core industrial chains:
 - The solar inverter system
 - The Li battery energy storage system
 - The environmental electrical appliance series
 - The heat exchanger series
- ◆ Deye ESS base in CiXi city of Ningbo. More than 170,000 square meter R&D center,battery pack,BMS, sheet metal processing, and spray factory. Deye ESS has15,000 sets(100,000 sets before 2025) ESS product capacity per month. Deye ESS product is certified by UL,CE etc

Deye Milestones

2022

After a year and a half of energy storage product development and accumulation, up to now, Accumulative orders of energy storage products have exceeded 10,000 sets.

2021

Deye Group was successfully listed on SSE of China in 2021, Stock Code 605117.SH.

2020

Founded Deye ESS company and prepared to build a team with senior industry experience, Devoted to make ESS better.

2019

By the end of 2019, with total shipments 30,000+, Deye hybrid inverter has become Top 3 in South Africa, Pakistan and Top 1 Chinese brand in USA.

2017

Deye has launched first generation hybrid inverter and attracted a lot of attention with many unique features such as V/f droop control technology and battery DC / DC topology etc...

2007

Founded in 2007 with registered capital of 46 million USD.

Core Technology

Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery: Safety and long Lifespan, high efficiency and high-Power density. Intelligent BMS, providing complete protection.

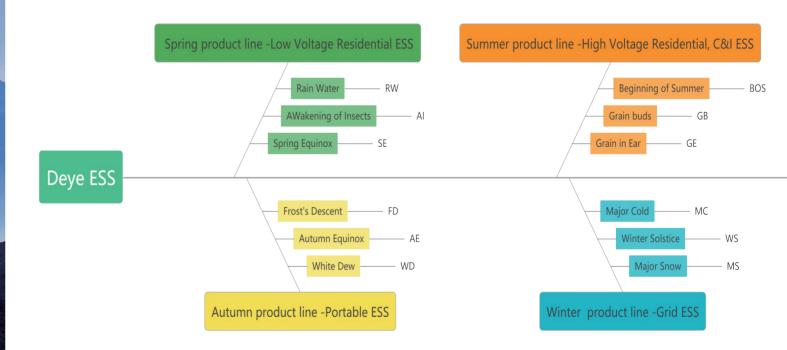
Support high discharge power. IP65, natural cooling, wide temperature range: -20 °C to 55 °C.

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 163.8 kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.

Convenient

Battery module auto networking, Automatic IP addressing, Easy maintenance, remotely monitoring and upgrade, Support USB drive upgrade the firmware.

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



Product Display



SE-G5.3





Safe

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 $^{\circ}$ to 55 $^{\circ}$.

• 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.

Technical Data

LiFePO ₄	
104	
Max. 64 pcs pack (340kWh) in parallel (Max. 32 pcs no external setup)	
51.2	
43.2~57.6	
5.32	
4.79	
34	
80	
100 (10mins,25 °C)	
90%	
440*133*560	
45	
5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)	
IP20	
crature Charge: $0 \sim 55$ °C (Optional heating) / Discharge: -20 °C ~ 55 °C	
0°C~ 35°C	
5%~95%	
≤2000m	
≥4000(25 °C±2°C,0.2C/0.2C 90% DOD ,70%EOL)	
19-inch standard cabinet, cabinet depth ≥600mm / with rack	
CAN2.0, RS485	
5 years	
8MWh@70%EOL	
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 .

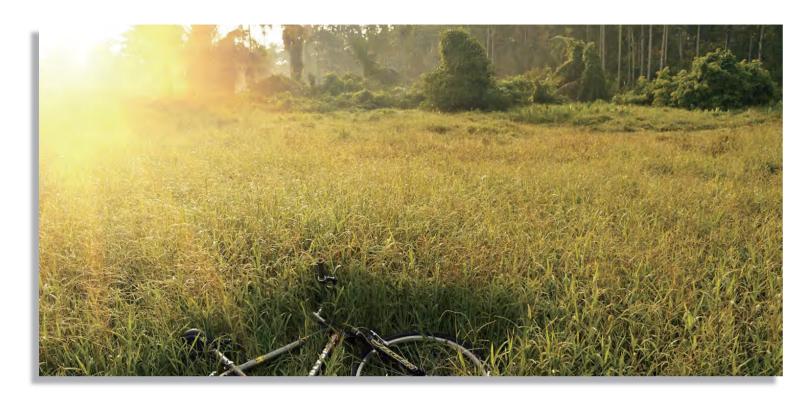
Introduction

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 loadbearing 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.

SE-G5.1 Pro





♦ 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 327kWh.

Suited to residential and commercial applications for increasing the self-consumption ratio.

♦ Convenient:

Battery module auto networking, Automatic IP addressing, Easy maintenance, remotely monitoring and upgrade, Support USB drive upgrade the firmware.

♦ Eco-Friendly:

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

Technical Data

Model		SE-G5.1 Pro	
Main Parameter			
Battery Chemistry		LiFePO ₄	
Capacity (Ah)		100	
Scalability(Max. in 1 batt	tery group)	Max. 64 pcs pack (327kWh) in parallel (Max. 32 pcs no external setup)	
Nominal Voltage (V)		51.2	
Operating Voltage (V)		43.2~57.6	
Energy (kWh)		5.12	
Usable Energy (kWh)[1]		4.61	
	Recommend ^[2]	50	
Charge/Discharging Current(A)	Max ^[2]	100	
	Peak (2 mins,25°C)	150	
Other Parameter			
Depth of Discharge		90%	
Dimension (W/D/H,mm)	445*133*430	
Weight Approximate (k	g)	45	
Master LED indicator		5LED(SOC:20%~100%), 3LED(working,alarming,protecting)	
IP Rating of Enclosure		IP20	
Altitude		≤2000m	
Working Temperature (°C)	Charge: 0~55/Discharge: -20~55	
Storage Temperature(°C	C)	0~35	
Humidity		5%~95%	
Cycle Life		25±2°C ,0.5C/0.5C,70%EOL≥6000	
Installation Location		19-inch standard cabinet, cabinet depth ≥600mm / with rack	
Communication Port		CAN2.0, RS485	
Warranty		10 years	
Life Cycle Power During Warranty Period ^[3]		16MWh@70%EOL	
Certification		UL1973, IEC62619, IEC61000, CE, UN38.3, UKCA, VDE 2510-50, UL9540A, FCC, CEC	

- [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.
- $\label{eq:continuous} \ensuremath{\texttt{[3]}} \ensuremath{\texttt{The}} \ warranty \ is \ due \ whichever \ reached \ first \ of \ warranty \ period \ or \ life \ cycle \ power.$

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 forvarious 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 and discharging to extend cycle life.

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

SE-G15.3 SE-G20.4





Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery , Safety and long Lifespan. Intelligent BMS, providing complete protection.

Reliable

High efficiency and high discharge power, natural cooling, wide temperature range: -4°F (-20°C) to 131°F (55°C).

Flexible

Modular design, module capacity 5kWh, easy to expand, Max. 8 sets in parallel, Max. capacity of 163.8 kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.

Convenient

The battery module has automatic IP address, easy maintenance, and supports the upgrade of the battery firmware through the inverter.

Eco-Friendly

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

Technical Data

Model		SE -G15.3	SE -G20.4		
Main Parameter					
Battery Chemistry		LiFeF	PO ₄		
Capacity(Ah)		300	400		
Scalability		Max.8 units	in parallel		
Nominal Voltage (V)		51.	2		
Operating Voltage(V)		43.2~	57.6		
Energy (kWh)		15.36	20.48		
Usable Energy (kWh) [1]	13.82	18.43		
	Recommend ^[2]	150	200		
Charge/Discharge Current (A)	Max. ^[2]	200			
	Peak(10s, 25°C)	360			
Other Parameter					
Recommend Depth	of Discharge	90%			
Dimension (W×D×H)	20.5 "×13.1 "×52.9 " (520 ×333 ×1,345mm, with base)			
Weight Approximate		379 lbs. (172kg) 476 lbs. (216kg)			
Enclosure Protection	Rating	Type 3R (IP55)			
Operating Temperatu	re	Charge: $32 ^{\circ}\text{F} \sim 131 ^{\circ}\text{F} \ (0 \sim 55 ^{\circ}\text{C})$ Discharge: $-4 ^{\circ}\text{F} \sim 131 ^{\circ}\text{F} \ (-20 ^{\circ}\text{C} \sim 55 ^{\circ}\text{C})$			
Operating Temperatu	re (Recommended)	59°F ~ 86°F (15°C ~ 30°C)			
Storage Temperature		32 °F ~ 95 °F (0°C ~ 35 °C)			
Humidity		5%~95%			
Altitude		≤Max. 6,562 ft (2,000m)			
Cycle Life		≥6,000(25 °C±2°C,0.5C/0.5C,70%EOL)			
Installation		Floor-Mounted			
Communication Port		CAN2.0, RS485			
Warranty Period [3]		10 years			
Certification		UL1973, UL9540A, FCC, IEC62619, U	UL1973, UL9540A, FCC, IEC62619, UN38.3,CEC,VDE,UKCA, CE,CEI0-21		

^[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.

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 forvarious types of equipment and systems.

This series is especially suitable for application scene of high power, limited installation space, restricted loadbearing 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 and discharging to extend cycle life.

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

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

RW-L2.5





Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-energy density

Reliable

Intelligent BMS, providing complete protection. Natural cooling, IP 54, wide temperature range: -20 °C to +55 °C.

• Flexible

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 82kWh. 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.

Wall-Mounted

Flat design, wall-mounted, saving installation space.

Technical Data

Model		RW- L2.5		
Main Parameter				
Battery Chemistry		LiFePO ₄		
Capacity (Ah)		100		
Scalability		Max.32 pcs in Parallel(82kWh)		
Nominal Voltage (V))	25.6		
Operating Voltage	(V)	21.6~28.8		
Energy(kWh)		2.56		
Usable Energy (kWh)[1]	2.30		
	Recommend ^[2]	34		
Charge/Discharge Current (A)	Max. ^[2]	80		
	Peak	100 (10mins,25 °C)		
Other Parameter				
Recommend Depth	of Discharge	90%		
Dimension (W/H/D, mm)		380*450*215(without Hanging Board)		
Weight Approximat	te(kg)	28		
Master LED Indicate	or	5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting)		
IP Rating of Enclosu	ire	IP54		
Operating Tempera	ture	Charge: 0∼+55°C / Discharge: -20°C∼+55°C		
Storage Temperatu	re	-20°C∼+35°C		
Humidity		5%~95%		
Altitude		≤2000m		
Cycle Life		≥4000(25 °C±2°C,0.2C/0.2C,90%DOD,70%EOL)		
Installation		Wall-Mounted		
Communication Port		CAN2.0, RS485		
Warranty Period ^[3]	Period ^[3] 5 years			
Energy Throughput	t [3]	4MWh@70%EOL		
Certification		UN38.3, MSDS		

- [1] DC Usable Energy, test conditions: 90% DOD, 0.2C 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 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 low 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 and discharging to extend cycle life.

RW-M5.3





Safer

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

Reliable

Intelligent BMS, providing complete protection. Natural cooling, IP 54, wide temperature range: -20° C to 55 $^{\circ}$ C.

• Flexible

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 170 kWh. 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.

Wall-Mounted

Flat design, wall-mounted, saving installation space.

Technical Data

Model		RW-M5.3		
Main Parameter				
Battery Chemistry		LiFePO ₄		
Capacity (Ah)		104		
Scalability		Max.32 pcs in Parallel(170kWh)		
Nominal Voltage (V)	51.2		
Operating Voltage	(V)	43.2~57.6		
Energy(kWh)		5.32		
Usable Energy(kWh) ^[1]	4.79		
	Recommend ^[2]	34		
Charge/Discharge Current(A)	Max . ^[2]	80		
	Peak	100 (10mins,25 °C)		
Other Parameter				
Recommend Depth of Discharge		90%		
Dimension(W/H/D,	mm)	380*620*140(Without Hanging Board)		
Weight Approximat	re(kg)	44		
Master LED Indicato	or	5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting)		
IP Rating of Enclosu	re	IP54		
Operating Tempera	ture	Charge: 0 ∼55°C / Discharge: -20°C∼55°C		
Storage Temperatur	re	0℃~35℃		
Humidity		5%~95%		
Altitude		≤2000m		
Cycle Life		≥4000(25 °C±2°C,0.2C/0.2C,70%EOL)		
Installation		Wall - Mounted		
Communication Port		CAN2.0, RS485		
Warranty Period ^[3]		5 years		
Energy Throughput	[3]	8MWh@70%EOL		
Certification		UN38.3, IEC62619, CE, CEI 0-21		

[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

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 low 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 and discharging to extend cycle life.

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

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

RW-M6.1





♦ 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. IP65, natural cooling, wide temperature range: -20°C to 55°C.

♦ Flexible:

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 196kWh.

Suited to residential and commercial applications for increasing the self-consumption ratio.

♦ Convenient:

Battery module auto networking, Automatic IP addressing, Easy maintenance, remotely monitoring and upgrade, Support USB drive upgrade the firmware.

♦ Eco-Friendly:

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

♦ Wall-Mounted:

High-power density:

Flat design, wall-mounted, saving installation space.

Technical Data

Model		RW-M6.1	
Main Parameter			
Battery Chemistry		LiFePO ₄	
Capacity (Ah)		120	
Scalability (max. in 1 b	attery group)	Max.32 in Parallel(196kWh)	
Nominal Voltage (V)		51.2	
Operating Voltage(V)		43.2~57.6	
Energy (kWh)		6.14	
Usable Energy (kWh)[1	1	5.53	
	Recommend ^[2]	60	
Charge/Discharge Current (A)	Max ^[2]	100	
Can ene (r y	Peak (2 mins,25°C)	150	
Other Parameter			
Recommend Depth o	f Discharge	90%	
Dimension (W/H/D,m	m)	460×720×143	
Weight Approximate	(kg)	55	
Master LED Indicator		5LED(SOC:20%~100%), 3LED (working, alarming, protecting)	
IP Rating of Enclosure		IP65	
Working Temperature	e (°C)	Charge:0~55/Discharge:-20~55	
Storage Temperature		0°C ~ 35°C	
Humidity		5%~95%	
Altitude		≤2000m	
Cycle Life		25°C±2°C, 0.5C/0.5C,70%EOL≥6000	
Installation		Wall-Mounted, Floor-Mounted	
Communication Port		CAN2.0, RS485	
Warranty		10 years	
Life Cycle Power Durin	ng Warranty Period[3]	20MWh@70%EOL	
Certification		UL1973, FCC, IEC62619, CEI 0-21, UN38.3, UKCA, VDE 2510-50	

- [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.
- $\hbox{\cite{1.5}{$1$}} The warranty is due whichever reached first of warranty period or life cycle power.$

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 forvarious 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 and discharging to extend cycle life.

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

AIO-Cabinet-EU/US





All-in-one Energy Storage System

- All-in-one design, could integrated 3kW~16kW low voltage hybrid inverter and 5kWh~30kWh battery
- ◆ Comfortable and easy control via App, PC or Touch-Display
- Leading smart application: peakshaving, smart load, AC couple etc.
- Modular lithium iron phosphate battery, module capacity 5kWh, scalable and safety
- Flat design, floor mount, Simple line design, quick and easy installation
- Fast switching time of 4ms, ensuring your energy security

Model	AlO - Cabi	AIO - Cabinet - US			
System Specification					
Hybrid Inverter Model	SUN -3/3.6/5/6K -SG04LP1-EU SUN -3.6/5/6K -SG03LP1-EU SUN -3.6/5/6/7.6/8K -SG05LP1-EU SUN -12/14/16K -SG01LP1-EU	SUN -5/6/8/10/12K -SG04LP3-EU	SUN -5/6K-SG01LP1-US SUN -7.6/8K -SG01LP1-US		
Grid Type	Single phase	Three phase	Split phase		
AC Input/Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac	50/60Hz; 3L/N/PE 220/380, 230/400Vac	60Hz(55Hz -65Hz); L1/L2/N(PE) 120/240/208Vac		
Battery Energy Configuration		5kWh ~ 30kWh			
Dimension (W x D x H)		39.4 " ×13.8 " ×61.8 " (1,000 ×35 : 25.6 " ×19.1 " ×78.7 " (650 ×485			
Cabinet Weight Approximate		Cabinet Type : 198 lbs.(90kg) Cabinet Type : 187 lbs.(85kg)			
Max. Charging/Discharging Current (A)	Depends on the i	nverter model and Battery QTY. (70A	√ ~ 250A)		
Battery Operating Voltage (V)		43.2 ~ 57.6			
Battery Chemistry		LiFePO ₄			
Enclosure Protection Rating		NEMA 3R (IP54)			
Display		LCD(inverter)			
Installation Style	Floor-Mounted				
Warranty	5 years				
Inverter Technical Specification	Depends on the inverter model				
Communication with BMS		CAN			
Safety EMC / Standard		99-1,IEC/EN 62109-2,IEC/EN 61000-0 C/EN 61000-6-3,IEC/EN 61000-6-4	6-1,IEC/EN 61000-6-2,		
Grid Regulation		2116,VDE0126,AS4777.2,CEI 0 21,EN: 11,UNE217002,NBR16149/NBR1615(
Max. Efficiency		97.60%			
Max. charging/discharging efficiency		95.00%			
Battery Technical Specification					
Nominal Voltage (V)		51.2			
Battery Module Energy (kWh)		5.12			
Battery Module Dimension	16.5	"×9.2"×26.4" (445×430×133mm)			
Battery Module Weight		97 lbs.(44kg)			
Operating Temperature Range	Charge: 32 °F ~ 131°F (0~ 55°C), Optional Heating (Charge: -20°C \sim 55°C) Discharge: -4°F \sim 131°F (-20°C \sim 55°C)				
Operating Temperature (Recommended)	59°F ~ 86°F (15°C ~ 30°C)				
Storage Temperature	32°F∼ 95°F (0°C∼ 35°C)				
Humidity	5%~95%				
Altitude	≤Max. 6562 ft (2,000m)				
Cycle Life	≥6,00	0(@25 °C±2°C,0.5C/0.5C,70%EOL)			
Battery Module Certification	UN38.3, IEC62619,	CE,VDE2510 -50, CEI 0-21, UL1973, U	UL9540A, FCC		

AI0-7.6K-15-US AI0-7.6K-20-US





All-in-one Energy Storage System

- ◆ All-in-one design, integrated 7.6 kW hybrid inverter and 15kWh~20kWh battery
- Comfortable and easy control via App, PC or Touch -Display
- Leading smart application: peak -shaving, smart load, AC couple etc.
- Modular lithium iron phosphate battery, module capacity 5 kWh, scalable and safety
- Flat design, floor mount, Simple line design, quick and easy installation
- Fast switching time of 4ms, ensuring your energy security

Model	AIO-7.6k-15-US	AIO-7.6k-20-US	
System Specification Nominal AC Output Power/UPS Power (W)	7,600 /	7,600	
AC Input/Output Frequency and Voltage		2/N(PE) 120/240/208Vac	
Grid Type			
	Split r 	20.48	
Energy Configuration (kWh) Dimension (W x D x H)			
		(1,000×350×1,570mm)	
Weight Approximate	540 lbs.(245kg)	639 lbs.(290kg)	
Max. Charging/Discharging Current (A)			
Battery Operating Voltage (V)	43.2 ~		
Battery Chemistry	LiFel		
Enclosure Protection Rating	NEM/		
Display	LC LC	D .	
System Certification	UL1973, UL954	<u> </u>	
Installation Style	Floor-N	lounted	
Warranty	10 ye	ears	
Inverter Technical Specification	Weene It Thomas	THE STATE OF THE S	
Max. PV Input Power(W)	9880(if more than 9880W w		
Max. PV Input Current(A)	26+		
Rated PV Input Voltage(Vdc)	370 (125~500)		
Start Up DC Voltage(Vdc)		5	
MPPT Voltage Range (Vdc)	150~	425	
Max. PV Short -circuit Current (A)	44+	44	
Number of MPPT		2	
Peak Power (off grid)	2 time of rated	l power, 10s	
Power Factor	0.8 leading to	0.8 lagging	
DC injection current (mA)	THD<3% (Linea	r load<1.5%)	
Operating Temperature Range	-40 °F ~140 °F (-40 °C	~60 °C , >45 °C derating)	
Dimension (W \times D \times H)	16.5"×9.2"×26.4"	(420×233×670mm)	
Weight Approximate	70.5 lk	os.(32kg)	
Communication with BMS		CAN	
Safety EMC / Standard	UL1741, FCC, IEC/EN 62109 -1,IEC/EI IEC/EN 61000-6-2,IEC/EN 61	,	
Grid Regulation	VDE4105,IEC61727/62116,VDE0126, G98,G99,C10-11,UNE21700		
Max. Efficiency	97.6	50%	
Max. charging/discharging efficiency	95.5	50%	
Battery Technical Specification		-	
Nominal Voltage (V)		1.2	
Battery Module Energy (kWh)	5.12		
Battery Module Dimension	16.5"×9.2"×26.4" (445×430×133mm)		
Battery Module Weight	97 lbs.(44kg)		
Operating Temperature Range	Charge: 32 $\mathbb{F} \sim 131 \mathbb{F}$ (0 \sim 55 \mathbb{C}) Discharge: -4 $\mathbb{F} \sim 131 \mathbb{F}$ (-20 $\mathbb{C} \sim 55 \mathbb{C}$)		
Operating Temperature (Recommended)	59 ₹ ~86 ₹ (15 ℃ ~30 ℃)		
Storage Temperature	32 ₹ ~95 ₹ (0 ℃ ~35 ℃)		
Humidity	5%~	95%	
Altitude	≤Max. 6562	ft (2,000m)	
Cycle Life	≥6,000(@25℃±2℃,	0.5C/0.5C,70%EOL)	
Battery Module Certification	UL1973, UL9540A, FCC, IEC626	19, UN38.3 ,CEC,VDE,UKCA,CE	

AI-W5.1





♦ 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. IP65, natural cooling, wide temperature range: -20 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$.

♦ Flexible:

Modular design, easy to expand, Max. 6 clusters in parallel (36 pcs), Max. capacity of 184kWh.

Suited to residential and commercial applications for increasing the self-consumption ratio.

♦ Convenient:

Battery module auto networking, Automatic IP addressing, Easy maintenance, remotely monitoring and upgrade, Support USB drive upgrade the firmware.

♦ Eco-Friendly:

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

♦ Quick Installation :

Flat and stackable design, floor or wall mount, no wiring and extra fixing screws, quick and easy installation.

Technical Data

Model		Al-W5.1				
Main Parameter						
Battery Chemistry				LiFePO4		
Battery Module Energy	(kWh)			5.12		
Battery Module Voltage	e (V)			51.2		
Battery Module Capaci	ty (Ah)			100		
Nominal Voltage (V)				51.2		
Operating Voltage (V)				43.2~57.6		
Scalability(Max. in 1 ba	ttery group)	2	3	4	5	6
Energy (kWh)		10.24	15.36	20.48	25.6	30.72
Usable Energy (kWh)[1]		9.2	13.8	18.4	23.0	27.6
	Recommend	100	150	200	250	250
Charge/Discharging Current(A) ^[2]	Max ^[3]	180	210	240	300	300
	Peak (2 mins,25°C)	270	315	360	360	360
Other Parameter						
Depth of Discharge		90%				
Dimension (W/D/H,mn	n)	697*240*766	697*240*1049	697*240*1332	697*240*1615	697*240*1898
Weight (kg)		117	163	209	255	301
Master LED Indicator		5LED(SOC:20%~100%), 3LED(working, alarming, protecting)				
IP Rating of Enclosure		IP65				
Altitude		≤2000m				
Working Temperature	(°C)	Charge: 0~55/Discharge: -20~55				
Storage Temperature (°C)	0~35				
Humidity		5%~95%				
Cycle Life		@25±2°C,0.5C/0.5C,70%EOL≥6000				
Installation Location		Floor Mounted, Wall Mounted				
Communication Port		CAN2.0, RS485				
Warranty ^[3]		10 years				
Life Cycle Power During	g Warranty Period ^[3]	16MWh(Battery Module @70%EOL)				
Certification			IEC62619	, CE, VDE2510-10, UN38	3.3, 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.

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 forvarious 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 and discharging to extend cycle life.

Multiple batteries can connect in parallel to expand capacity and power 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 life cycle power.

AI-W5.1-5/6/8P1-EU AI-W5.1-8/10/12P3-EU



All-in-one Energy Storage System

- ◆ All-in-one design, integrated 5/8/12KW hybrid inverter and battery
- Comfortable and easy control via App, PC or Touch-Display
- Leading smart application: peak-shaving, smart load, AC couple etc
- Modular lithium iron phosphate battery, capacity of 5kWh~30kWh, scalable and safety
- Flat and stackable design, floor or wall mount, no wiring and extra fixing screws, quick and easy installation.
- Fast switching time of 4ms, ensuring your energy security.

AC Output Frequency and Voltage Single Phase Single Phase Single Phase SkWh-30kWh/Single system) Three Phase Energy Range Recommended Energy Configuration (Min.) (M	Model	AI-W5.1-5P1-EU	AI-W5.1-6P1-EU	Al-W5.1-8P1-EU	AI-W5.1-8P3-EU	AI-W5.1-10P1-EU	AI-W5.1-12P3-ES	
Nominal Output Power(IVP) S000 S000 S000 S000 S000 10000 / 10000 12000 / 12000 12000 / 12000 12000 / 12000 12000 / 12000 12000 / 12000 12000 / 12000 / 12000 12000 / 12000 12000 / 12000 12000 / 12000 / 12000 12000 / 12	System Specification							
AC Output Frequency and Voltage Single Phase Single Phase Single Phase SkWh-30kWh/Single system) Three Phase Energy Range Recommended Energy Configuration (Min.) (M	Nominal Output Power/UPS Power (W)	5000 / 5000	6000 / 6000	8000	/ 8000	10000 / 10000	12000 / 12000	
Single Phase	AC Output Frequency and Voltage	50/60Hz	z; L/N/PE 220/230\	/ac	31	_/N/PE 220/380,	ı	
SkWh - 30kWh (Single system) SkWh - 30kWh (Single system) SkWh - 10kWh (Min.) 15kWh (Mi	Grid Type		Single Phase					
Max. Charging/Discharging Current (A) 120 135 190 210 240	Energy Range			5kWh~30kWh	(Single system)			
Battery Operating Voltage (V) Battery Chemistry Parting of Enclosure IP65	Recommended Energy Configuration						15kWh (Min.)	
Plating of Enclosure IP65 System Certification IEC62619,IEC60730,CEVDE2510-10, CEI 0-21	Max. Charging/Discharging Current (A)	120	135	19	90	210	240	
Pating of Enclosure IP65	Battery Operating Voltage (V)			43.2	~57.6			
System Certification IEC62619,IEC60730,CE,VDE2510-10, CEI 0-21	Battery Chemistry			LiFe	PO4			
Name	IP Rating of Enclosure			IP	65			
Max. PV Input Power (W)	System Certification		IECe	52619,IEC60730,CE	,VDE2510-10, CEI	0-21		
Max. PV Input Power (W) 6500 7800 10400 15600 19500 Max. PV Input Current (A) 13+13 26+26 13+13 26+13 Rated PV Input Voltage (Vdc) 370 (125-500) \$550 (160-800) Start Up DC Voltage (Vdc) 125 160 MPPT Voltage Range (Vdc) 150-425 200-650 Max. PV Short-circuit Current (A) 17+17 34+34 17+17 34+17 No. of MPP Tracker 2 2 2 Peak Power (off grid) 2 time of rated power, 10s 2 2 Power Factor 0.8 leading to 0.8 lagging DECIDE 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 4 3 4 1 7 3 4+17 3 4+17 3 4+17 3 4+17 3 4+17 3 4+17 3 4+17 3 4+17 3 4+17 3 4+17 3 4 4	Warranty			10 y	rears			
Max PV Input Current (A) 13+13 26+26 13+13 26+13 Rated PV Input Voltage (Vdc) 370 (125~500) 550 (160~800) Start Up DC Voltage (Vdc) 125 160 MPPT Voltage Range (Vdc) 150-425 200-650 Max. PV Short-circuit Current (A) 17+17 34+34 17+17 34+17 No. of MPP Tracker 2 2 2 Peak Power (off grid) 2 time of rated power, 10s 2 Power Factor 0.8 leading to 0.8 lagging DEO DC injection current (mA) THD-3% (Linear load<1.5%)	Inverter Technical Specification							
Rated PV Input Voltage (Vdc) Start Up DC Voltage (Vdc) 125 160 MPPT Voltage Range (Vdc) 125 200-650 Max. PV Short-circuit Current (A) 17+17 34+34 17+17 34+37 34+17 No. of MPP Tracker 2 Peak Power (off grid) Power Factor Co. B. leading to 0.8 leaging Devention DC injection current (mA) Display DC injection current (mA) Display DC injection current (mA) Display DC injection current (mB) Display DC injection current (mB) DI HDX-3% (Linear load<1.5%) Display DC injection current (mB) DC injection current (mB) Display DC injection current (mB injection in in injection current (mB injection in injection injection in in	Max. PV Input Power (W)	6500	7800	104	00	15600	19500	
Start Up DC Voltage (Vdc) 125 160	Max. PV Input Current (A)	13+	-13	26+26	13+13	26+	13	
MPPT Voltage Range (Vdc) 150-425 200-650 Max. PV Short-circuit Current (A) 17+17 34+34 17+17 34+17 No. of MPP Tracker 2 2 Peak Power (Gfrid) 2 time of rated power, 10s 2 Peak Power (Gfrid) 0.8 leading to 0.8 leaging Design (Linear load < 1.5%)	Rated PV Input Voltage (Vdc)		370 (125~500)			550 (160~800)		
Max. PV Short-circuit Current (A) 17+17 34+34 17+17 34+17 No. of MPP Tracker 2 2 Peak Power (off grid) 2 time of rated power, 10s Power Factor 0.8 leading to 0.8 leaging on 0.8 leading to	Start Up DC Voltage (Vdc)							
No. of MPP Tracker 2 Peak Power (off grid) 2 time of rated power, 10s Power Factor 0.8 leading to 0.8 lagging DC injection current (mA) THD<3% (Linear load<1.5%)	MPPT Voltage Range (Vdc)		150-425					
No. of MPP Tracker 2 Peak Power (off grid) 2 time of rated power, 10s Power Factor 0.8 leading to 0.8 lagging DC injection current (mA) THD<3% (Linear load<1.5%)	Max. PV Short-circuit Current (A)	17+17		34+34	17+17	34+	34+17	
Power Factor 0.8 leading to 0.8 lagging DC injection current (mA) THD<3% (Linear load<1.5%) Display LCD Operating Temperature Range (°C) -40~60(>45 °C derating) Relative Humidity 15% ~ 85% (No Condensing) Dimension (W x D x H,mm) 720x255x330 720x255x440 Weight Appr. (kg) 32 36 Communication with BMS CAN CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 GEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Module Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*81 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0~55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C/0.5C/0.5C/0.5C/0.5C/0.5C/0.5C/	No. of MPP Tracker				2			
Power Factor 0.8 leading to 0.8 lagging DC injection current (mA) THD<3% (Linear load<1.5%) Display LCD Operating Temperature Range (°C) -40~60(>45° C derating) Relative Humidity 15% ~ 85% (No Condensing) Dimension (W x D x H,mm) 720x255x330 720x255x440 Weight Appr. (kg) 32 36 Communication with BMS CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs.), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Module Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*81 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0~55°C / Discharge: -2	Peak Power (off grid)			2 time of rate	ed power, 10s			
DC injection current (mA) THD<3% (Linear load<1.5%) Display LCD Operating Temperature Range (°C) 40~60(>45 °C derating) Relative Humidity 15% ~ 85% (No Condensing) Dimension (Wx D x H,mm) 720x255x330 720x255x440 Weight Appr. (kg) 32 36 Communication with BMS CAN CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 97.60% Battery Technical Specification S1.2 Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Module Dimension (W x D x H,mm) 720*255*85 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge 0 ~55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70.5C,0.5C,0.5C)	Power Factor				-			
Operating Temperature Range (℃) -40~60(>45 ℃ derating) Relative Humidity 15% ~ 85% (No Condensing) Dimension (W x D x H,mm) 720x255x330 720x255x440 Weight Appr. (kg) 32 36 Communication with BMS CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 97.60% Max. Efficiency 97.60% 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) 5.12 Battery Module Energy (kWh) 5.12 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh 83 Battery Module Dimension (W x D x H,mm) 720*255*285 84 Battery Base Dimension (W x D x H,mm) 720*255*85 85 Battery PDU Dimension (W x D x H,mm) 720*255*110 84 Battery Module Weight Appr. (kg) 53 Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life	DC injection current (mA)				55 5			
Relative Humidity 15% ~ 85% (No Condensing) Dimension (W x D x H,mm) 720x255x330 720x255x440 Weight Appr. (kg) 32 36 Communication with BMS CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) Nominal Voltage (W) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery PDU Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Display			L	CD			
Dimension (W x D x H,mm) 720x255x330 720x255x440 Weight Appr. (kg) 32 36 Communication with BMS CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification 51.2 Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery PDU Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C ~ +55°C Cycle Life ≥6000(@25°C±2 C ,0.5C/0.5C,70%EOL)	Operating Temperature Range (°C)			-40~60(>45	C derating)			
Weight Appr. (kg) 32 36 Communication with BMS CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification 51.2 Nominal Voltage (V) 5.12 Sattery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery PDU Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	Relative Humidity			15% ~ 85% (N	o Condensing)			
Communication with BMS CAN Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification 51.2 Nominal Voltage (V) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Base Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0~55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C+2 C,0.5C/0.5C,70%EOL)	Dimension (W x D x H,mm)	720x25	5x330			720x255x44	10	
Safety EMC / Standard IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2 Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery PDU Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Weight Appr. (kg)	32	2			36		
Grid Regulation CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116, IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification 51.2 Nominal Voltage (V) 5.12 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Base Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0~55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Communication with BMS			C	AN			
IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11 Max. Efficiency 97.60% Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) Battery Base Dimension (W x D x H,mm) Battery PDU Dimension (W x D x H,mm) Battery Module Weight Appr. (kg) Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C ~ +55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Safety EMC / Standard		IEC/EN 6	1000-6-1/2/3/4,IEC/	EN 62109-1,IEC/EN	62109-2		
Max. charging/discharging efficiency 95.50% Battery Technical Specification Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Base Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0~55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	Grid Regulation							
Battery Technical Specification Nominal Voltage (V) 51.2 Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Base Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C ~ +55°C Cycle Life ≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	Max. Efficiency			97.0	50%			
Nominal Voltage (V) Battery Module Energy (kWh) Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) Battery Base Dimension (W x D x H,mm) Battery PDU Dimension (W x D x H,mm) Battery PDU Dimension (W x D x H,mm) Battery Module Weight Appr. (kg) Operating Temperature Range Charge: 0 ∼ 55°C / Discharge: -20°C ∼ +55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Max. charging/discharging efficiency			95.	50%			
Battery Module Energy (kWh) 5.12 Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Base Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	Battery Technical Specification							
Scalability Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh Battery Module Dimension (W x D x H,mm) 720*255*285 Battery Base Dimension (W x D x H,mm) 720*255*85 Battery PDU Dimension (W x D x H,mm) 720*255*110 Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	Nominal Voltage (V)			51	.2			
Battery Module Dimension (W x D x H,mm) Battery Base Dimension (W x D x H,mm) Battery PDU Dimension (W x D x H,mm) Battery PDU Dimension (W x D x H,mm) Battery Module Weight Appr. (kg) Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C ~ +55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Battery Module Energy (kWh)							
Battery Base Dimension (W x D x H,mm) Battery PDU Dimension (W x D x H,mm) Battery Module Weight Appr. (kg) Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 C,0.5C/0.5C,70%EOL)	Scalability							
Battery PDU Dimension (W x D x H,mm) $720*255*110$ Battery Module Weight Appr. (kg) 53 Operating Temperature RangeCharge: $0 \sim 55^{\circ}$ C / Discharge: -20° C $\sim +55^{\circ}$ CCycle Life $\geq 6000(@25^{\circ}$ C $\pm 2^{\circ}$ C,0.5C/0.5C,70%EOL)	Battery Module Dimension (W x D x H,mm)		-	720*2	55*285			
Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C ~ +55°C Cycle Life ≥6000(@25°C±2 ℃,0.5C/0.5C,70%EOL)	Battery Base Dimension (W x D x H,mm)			720*2	55*85			
Battery Module Weight Appr. (kg) 53 Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C ~ +55°C Cycle Life ≥6000(@25°C±2 ℃,0.5C/0.5C,70%EOL)	Battery PDU Dimension (W x D x H,mm)							
Operating Temperature Range Charge: 0 ~ 55°C / Discharge: -20°C~+55°C Cycle Life ≥6000(@25°C±2 °C,0.5C/0.5C,70%EOL)	Battery Module Weight Appr. (kg)			53	3			
Cycle Life ≥6000(@25°C±2 °C,0.5C/0.5C,70%EOL)	Operating Temperature Range							
	Cycle Life							
,	Battery Module Certification							

BOS-G



♦ Convenient

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

♦ 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-cu rrent and over-high or low temperature. The systemcan 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 upgrade (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-G				
Main Parameter						
Cell Chemistry			LiFePO4			
Module Energy (kWh)			5.12			
Module Nominal Volt	age (V)		51.2			
Module Capacity (Ah)			100			
Battery Module Qty ir	series. (Optional)	3 (Min)	8 (Standard US Cluster)	12 (Standard EU Cluster)		
System Nominal Volta	age (V)	153.6	409.6	614.4		
System Operating vol	tage (V)	124.8~175.2	332.8~467.2	499.2~700		
System Energy (kWh)		15.36	40.96	61.44		
System Usable Energy (kWh) ^[1]		13.8	36.86	55.29		
	Recommend	50				
Charge/Discharge Current (A) ^[2]	Max	100				
	Peak Discharge (2 mins, 25°C)	125				
Working Temperature	e (°C)	Charge: 0~55/Discharge: -20~55				
Status Indicator			Yellow: Battery High Voltage Power Or Red: Battery System Alarm	1		
Communication Port			CAN2.0/RS485			
Humidity			5~85%RH			
Altitude		≤2000 m				
IP Rating of Enclosure		IP20				
Dimension (W/D/H,m	m)	589	589*590*1640			
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 ^[3]		10 years				
Certification		CE, IEC62619, UL1973, UL9540A, UN38.3				

- [1] DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- $\ensuremath{[2]}$ The current is affected by temperature and SOC.
- $\label{eq:continuous} \ensuremath{\texttt{[3]}} \ensuremath{\texttt{The}} \ warranty \ is \ due \ whichever \ reached \ first \ of \ warranty \ period \ or \ life \ cycle \ power.$

GB-L



-voltage platform improves system efficiency.

♦ Environmental friendliness:

IP protection grade 65, anti-corrosion grade ≥C2, environmental protection battery.

♦ Intelligent and visual:

Support remote upgrade, real-time battery warning information push, LCD data display.

Model				GB-L				
Main Parameter								
Cell Chemistry				LiFePO ₄				
Module Energy (kWh)				4.09				
Module Nominal Volta	age (V)			102.4				
Module Capacity (Ah)				40				
Battery Module Qty In	Series (Optional)	2	3	4	5	6		
System Nominal Volta	age (V)	204.8	307.2	409.6	512	614.4		
System Operating volt	age (V)			166.4~700		'		
System Energy (kWh)		8.18	12.27	16.36	20.45	24.56		
System Usable Energy	(kWh) ^[1]	7.36	11.04	14.72	18.40	22.10		
	Recommend		20					
Charge/Discharge Current (A) ^[2]	Max	40						
current (i i)	Peak Discharge (2 mins,25°C)	50						
Working Temperature	(°C)	Charge:0~55/Discharge:-20~55						
LCD Display		SOC%,Power,Total Voltage						
Communication Port		CAN2.0, RS485						
Humidity		5%~90%						
Altitude		≤2000m						
IP Rating of Enclosure		IP65						
Storage Temperature	(°C)	0~35						
Dimension (W/D/H,mi	n)	540*385*650	540*385*870	540*385*1090	540*385*1310	540*385*1530		
Weight(kg)		97	136	175	214	253		
Installation Location		Floor Mount						
Recommend Depth of	Discharge	90%						
Cycle Life		25±2,0.5C/0.5C, EOL70%≥6000						
Warranty ^[3]		10 years						
Certification		CE, IEC62619, VDE2510-50, UL1973, UL9540A, UN38.3						

^[1] DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

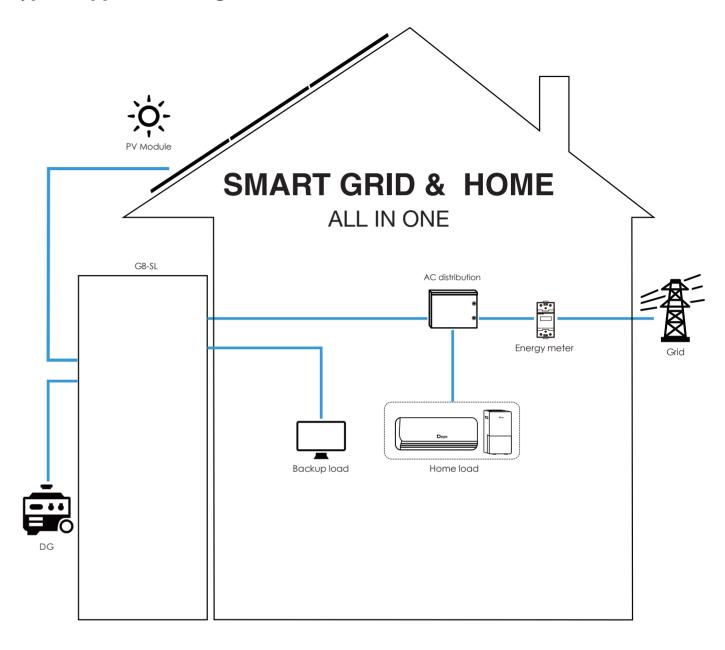
^[2] The current is affected by temperature and SOC.

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

GB-SL-EU



Typical Application Diagram



Technical Data GB-SL-EU

Model	GB-S6K-EU	GB-S8K-EU	GB-S10K-EU	GB-S12K-EU	GB-S15K-EU	GB-S20K-EU
Battery Input Data						
Battery Type			Li-	ion		
Battery Voltage Range (V)		150~700				
Max. Charging Current (A)	_		3	37		
Max. Discharging Current (A)				37		
Number of battery input				. <u>. </u>		
Charging Strategy for Li-Ion Battery				ion to BMS		
PV String Input Data						
Max. DC Input Power (W)	7800	10400	13000	15600	19500	26000
Max. DC Input Voltage (V)		10100		1000	1,7300	20000
Start-up Voltage (V)				50		
MPPT Range (V)				-850		
	105.050	260.050	I		422.050	500.050
Full Load DC Voltage Range (V)	195-850	260-850	325-850	340-850	423-850	500-850
Rated DC Input Voltage (V)		20 : 20	61	00	. 20	26 : 26
PV Input Current (A)	_	20+20			+20	26+26
Max. PV I _{SC} (A)		23+23			+23	32+32
No.of MPP Trackers				2		
No.of Strings per MPP Tracker		1		2+1		2
AC Output Data			ı			
Rated AC Output and UPS Power (W)	6000	8000	10000	12000	15000	20000
Max. AC Output Power (W)	6600	8800	11000	13200	16500	22000
AC Output Rated Current (A)	9.1	12.2	15.2	18.2	22.8	30.3
Max. AC Current (A)	13	18	22	25	30	35
Max. Continuous AC Passthrough (A)			8	80		
Peak Power (off grid)			1.5 time of rat	ed power, 10 S		
Generator input/Smart load /AC couple current (A)	9.1 / 80 / 9.1	12.2 / 80 / 12.2	15.2 / 80 / 15.2	18.2 / 80 / 18.2	22.8 / 80 / 22.8	30.3 / 80 / 30.3
Power Factor			0.8 leading t	o 0.8 lagging		
Output Frequency and Voltage		5	0/60Hz; 3L/N/PE 2	20/380, 230/400V	ac	
Grid Type	Three Phase					
DC injection current (mA)			<0.5	%1n		
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	97.00%					
MPPT Efficiency	99.90%					
Protection						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection					
Output Over Voltage Protection			DC Type II	/AC Type III		
Certifications and Standards						
Grid Regulation	EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDEN4105-2018, G99					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
General Data		ILC, LIV 01	555 5 1,2/5/7, ILC		52.107.2	
Operating Temperature Range (°C)			-40~60°C \/	15°C derating		
Cooling						
	Smart cooling RS485; CAN					
Communication with BMS			BCV8	S- CAN		

Technical Data GB-SL-EU

Model				GB-L				
Battery System Dat	a							
Cell Chemistry		LiFePO4						
Module Energy (kW	h)	4.09						
Module Nominal Vo	oltage (V)			102.4				
Module Capacity (Al	h)	40						
Battery Module Qty	in series.(Optional)	2	3	4	5	6		
System Nominal Vo	ltage (V)	204.8	307.2	409.6	512	614		
System Operating v	oltage (V)			179.2~ 691.2				
System Energy (kWh	n)	8.18	12.27	16.36	20.45	24.57		
System Usable Energ	gy (kWh)	7.36	11.04	14.72	18.40	22.11		
Charge/Discharge	Recommend	20						
Current (A)	Max	40						
Carrette (71)	peak (2mins, 25°C)	50						
Working Temperatu	ıre (°C)	Charge/Discharge:-20~55						
Communication Port		CAN2.0/RS485						
Thermal Management		Natural Cooling/Smart Heating						
Recommend Depth	of Discharge	90%						
Cycle Life			25±2	2°C,0.5C/0.5C,70%EOL≥	6000			
Warranty				10 years				
Certification			CE/IEC	62619/VDE 2510-50/	JN38.3			
Other Data								
Humidity		5~85%RH						
Altitude (m)		≤2000						
IP Rating of Enclosur	re	IP65						
Noise (dB)		<45						
Storage Temperature (°C)		0~35						
Dimension (W/D/H,mm)		540*385*1100	540*385*1320	540*385*1540	540*385*1760	540*385*1980		
Weight Approximat	e (kg)	137	176	215	254	293		
Installation Location	1	Floor Mount						

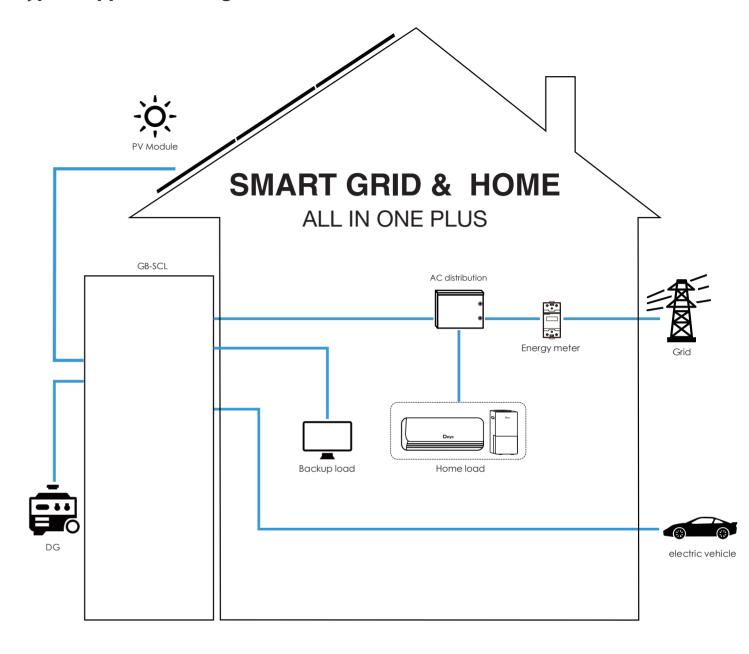
^[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters. [2] The current is affected by temperature and SOC.

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

GB-SCL-EU



Typical Application Diagram



Technical Data

Model	GB-S6K-EU	GB-S8K-EU	GB-S10K-EU	GB-S12K-EU	GB-S15K-EU	GB-S20K-EU
Battery Input Data						
Battery Type			Li-	ion		
Battery VoltageRange (V)	150~700					
Max. ChargingCurrent(A)	37					
Max. DischargingCurrent(A)		37				
Numberof batteryinput				1		
ChargingStrategyfor Li-Ion Battery			Self-adapt	ion to BMS		
PV String Input Data			·			
Max. DCInputPower (W)	7800	10400	13000	15600	19500	26000
Max. DCInputVoltage(V)			10	000		1
Start-up Voltage(V)			1.	50		
MPPT Range(V)			150	-850		
FullLoadDCVoltageRange(V)	195-850	260-850	325-850	340-850	423-850	500-850
Rated DCInputVoltage(V)				00		
PV InputCurrent (A)		20+20		26	+20	26+26
Max. PV I _{SC} (A)		23+23		32	+23	32+32
No.of MPP Trackers				2		I
No.of Stringsper MPP Tracker		1			+1	2
ACOutput Data						
Rated ACOutput and UPS Power (W)	6000	8000	10000	12000	15000	20000
Max. ACOutputPower(W)	6600	8800	11000	13200	16500	22000
ACOutputRated Current (A)	9.1	12.2	15.2	18.2	22.8	30.3
Max. ACCurrent (A)	13	18	22	25	30	35
Max. ContinuousACPass through(A)			8	30		I
Peak Power (off grid)			1.5 time of rat	ed power, 10S		
Generator input/Smart load /ACcouplecurrent(A)	9.1 / 80 / 9.1	12.2 / 80 / 12.2	15.2 / 80 / 15.2	18.2 / 80 / 18.2	22.8 / 80 / 22.8	30.3 / 80 / 30.3
Power Factor		'	0.8 leading t	o 0.8 lagging		
OutputFrequencyand Voltage		5	60/60Hz; 3L/N/PE 2	20/380, 230/400Va	ac	
GridType		Three Phase				
DC injection current (mA)			<0.5	5%1n		
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	97.00%					
MPPT Efficiency	99.90%					
Protection						
Integrated	PVInputLightningProtection, Anti-islandingProtection, PV StringInputReverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, OutputShorted Protection, Surgeprotection					
OutputOverVoltageProtection	DC Type II/AC TypeIII					
Certifications and Standards						
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data						
OperatingTemperatureRange(°C)			-40~60°C, >4	15°C derating		
Cooling		Smartcooling				
Communication with BMS	RS485;CAN					
Warranty	5 years					
	Зусатэ					

Model	GB-C11K-EU
	35 21.11.20
Charger Data Charger Data	
Rate Power(kw)	11
OutputVoltageRange(V)	400AC
OutputCurrentRange(A)	16A
CommunicationPort	RS485
Chargingstandard	Type2
Standards/regulations	IEC61851-1
OperatingTemperatureRange(°C)	-30~50
Thermal Management	Natural Cooling
Warranty	2 years
Certification	CE/CB
Model	GB-LM4.0
Battery System Data	

Model			GB	-LM4.0			
Battery System Dat	ta						
CellChemistry			LiFel	PO4			
Module Energy(kWh	1)		4.0)9			
Module Nominal Vo	oltage(V)		102	2.4			
Module Capacity(Al	n)		40	0			
Battery Module Qty	in series.(Optional)	3	4	5	6		
System Nominal Vo	ltage(V)	307.2	409.6	512	614.4		
SystemOperatingVo	oltage(V)		268.8~	-691.2			
System Energy (kWł	n)	12.27	16.36	20.45	24.57		
System Usable Ener	gy(kWh) 1	11.04	14.72	18.40	22.08		
	Recommend		20	0			
Charge/Discharge ²	Max	40					
Current (A) peak (2mins, 25°C)		50					
Working Temperature(°C)		Charge:0~55/Discharge:-20~60					
CommunicationPort		CAN2.0/RS485					
Thermal Manageme	ent		Natural	Cooling			
RecommendDepth	of Discharge		90	%			
Cycle Life			25±2°C,0.5C/0.50	C,70%EOL≥6000			
Warranty ³			10 ye	ears			
Certification			CE/IEC 62619/VDB	E2510-50/UN38.3			
Other Data							
Humidity			5~85	%RH			
Altitude(m)			≤20	000			
P Ratingof Enclosur	e						
Noise(dB)		<45					
Storage Temperatur	re(°C)	0~35					
Dimension(W/D/H,mm)		540*385*1320	540*385*1540	540*385*1760	540*385*1980		
Weight Approximate(kg)		176	215	254	293		
Installation Location	า		Floor Mount				

- $1 \quad DCU sable Energy, test conditions: 90\% DOD, 0.2C charge \& discharge at 25 ^{\circ}C. System usable energy may vary due to system configuration parameters.$
- 2 The current is affected by temperature and SOC.
- 3 The warranty is due whichever reached first of warranty period or life cycle power.

GE-F60





• Intelligent temperature control

Built-in air conditioner,the maximum temperature of the battery is less than 40°C

◆ Reliable

Positive Balance Intelligent BMS, providing complete protection, can effectively extend cycle life of battery packs

◆ Flexible

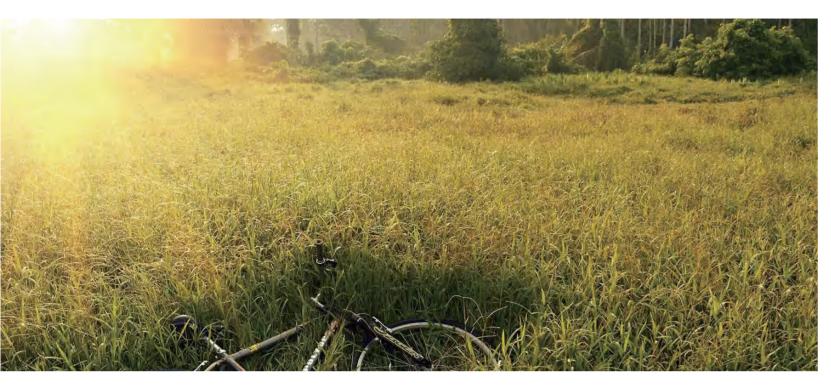
EMS and BMS integrated technology, AC/DC power supply redundancy design, support black start function

♦ Safer

Prismatic Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution

Model	GE-F60
System Specification	
Nominal Output Power/UPS Power (W)	50000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three phase
Energy Configuration (kWh)	61.4
Dimension (W x D x H,mm)	735x1050x2250 (no contain inverter)
Weight Appr. (kg)	880
AC Output Rated Current(A)	75.8
Battery Operating Voltage (V)	500 ~ 700
Battery Chemistry	LiFePO ₄
IP Rating of Enclosure	IP55
System Certification	UN38.3,IEC62619, CE, CEI 0-21, VDE-AR-N 4105, IEC 62109
Installation Style	Floor - Mounted
Warranty	10 years
Inverter Technical Specification	
Max. PV Input Power (W)	65000
Max. PV Input Current (A)	36+36+36
Rated PV Input Voltage (Vdc)	600
Start Up DC Voltage (Vdc)	180
MPPT Voltage Range (Vdc)	150-850
Max. PV Short-circuit Current (A)	44+44+44
Number of MPPT	4
Peak Power (off grid)	1.5 time of rated power,10s
Power Factor	0.8 leading to 0.8 lagging
THD	<3%
DC injection current (mA)	<0.5ln
Display	LCD
Operating Temperature Range (°C)	-40~60(>45°C derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	420x233x670
Inverter Communication	CAN,RS485,WIFI,ETH
Safety EMC / Standard	UL1741, FCC, IEC/EN 62109-1,IEC/EN 62109-2,IEC/EN 61000-6-1,
Grid Regulation	IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4 VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 0 21,EN50549-1, G98,G99,C10-11,UNE217002,NBR16149/NBR16150
Max. Efficiency	97.6%
Max. charging/discharging efficiency	91%
Battery Technical Specification	
Battery Module Nominal Voltage(V)	51.2
Battery Module Energy (kWh)	5.12
BMS Communication	CAN
Battery Module Dimension(W*D*H mm)	440x570x133
Battery Module Weight (kg)	44
Operating Temperature Range	Charge: 0 ~ 55°C / Discharge: -20°C ~55°C
Cycle Life	≥6000(@25°C ± 2°C,0.5C,70%EOL)
Battery Module Certification	CE, IEC62619, IEC62040, UN38.3
,	, :===== : :, :===== : :, : : :====

MS-G230





◆ Scalable

Support the expansion of MPPT module, charging module, and diesel generator connection

♦ Intelligent temperature control

Built-in air conditioner, the maximum temperature of the battery is less than 38 $^\circ\! C$

♦ Reliable

Positive Balance Intelligent BMS, providing complete protection, can effectively extend cycle life of battery packs

▲ Flexible

EMS and BMS integrated technology, AC/DC power supply redundancy design, support black start function

◆ Safer

Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution

Model	MS-G230			
System Specification				
Nominal Output Power (KW)	100			
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 380/400Vac			
Grid Type	On grid/Off grid(500ms)			
Energy Configuration (kWh)				
Dimension (W x D x H,mm)	1700×1000×2500			
Weight Appr. (kg)	2.8T			
Battery Operating Voltage (V)	DC:600~935(on grid)/DC:700 ~ 935(off grid)			
Max. RTE	88%			
System Communication	ETH/4G			
System Operating temperature range(°C)	-30~45			
Max. working altitude(m)	3000			
IP Rating of Enclosure	IP55			
Anti-corrsion grade	C5			
System Certification	UN38.3, IEC62619, IEC61000, IEC62477			
Installation Style	Floor-Mounted			
Warranty	10 years			
Converter Technical Specification				
AC Output Rated Current (A)	152			
MAX. AC Output Rated Current (A)	167			
MAX .number of parallel	12 PCS			
Peak Power (off grid)	1.5 time of rated power, 10s			
Power Factor	-1~1			
THD	<3%			
DC injection current (mA)	<0.5ln			
Display	LCD			
Operating Temperature Range (°C)	-25 ~65(>45°C derating)			
Relative Humidity	15% ~ 85% (No Condensing)			
Dimension (W x D x H,mm)	506x772x310			
Converter Communication	CAN,RS485, ETH			
Overvoltage protection	DC Type II / AC Type III			
Protection level	Class 1			
Safety EMC / Standard	IEC/EN 62109-1,IEC/EN 62109-2 IEC/EN 61000-6-1, IEC/EN 61000 2,IEC/ŒN 61000 3,IEC/ŒN 61000 -6-4			
Grid Regulation	IEC62477,VDE4105,CEI 0-21,G98,G99,			
Max. Efficiency	97.6%			
Battery Technical Specification				
Battery Chemistry	LiFePO4			
Battery Module Nominal Voltage (V)	51.2			
Battery Module Energy (kWh)	14.3			
BMS Communication	CAN			
Battery Module Dimension(W*D*H mm)	526x784.5x230			
Battery Module Weight (kg)	100			
Operating Temperature Range	Charge: 0 ∼55 °C / Discharge⊋0 °C 55°C			
Cycle Life	600 8 (@25 ,0.5 C / 0 .5 C ,70%EOL)			
Battery Module Certification	IEC61000,IEC60730, IEC62619, IEC62477, UN38.3			
*				