



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 : 2024.1.0

WORLD-LEADING ENERGY STORAGE SYSTEM PROVIDER

TO MAKE ESS BETTER

ABOUT

DEYE ENERGY STORAGE



Ningbo Deye Technology Co., Ltd is a large-scale manufacturing technology enterprise integrating R&D, design, production, sales and services. Deye has five core industrial chains:

- The solar inverter after-sales service.
- The Li battery energy storage system.
- The frequency conversion control 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 has 15,000 sets (100,000 sets before 2025) ESS product capacity per month. Deye ESS product is certified by UL, CE etc.



500+
R & D Team



29+
Professional Laboratory



6+
Automated Production Line



DEYE MILESTONES

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

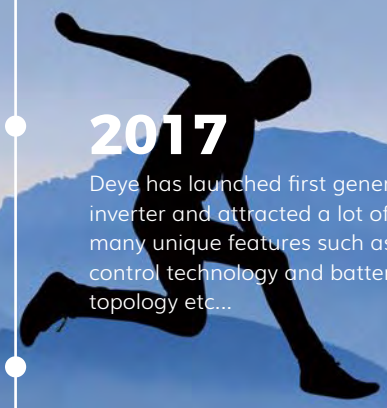
2022
After a year and a half of energy storage product development and accumulation, up to now, Accumulative orders of energy storage products have exceeded 10,000 sets.

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...

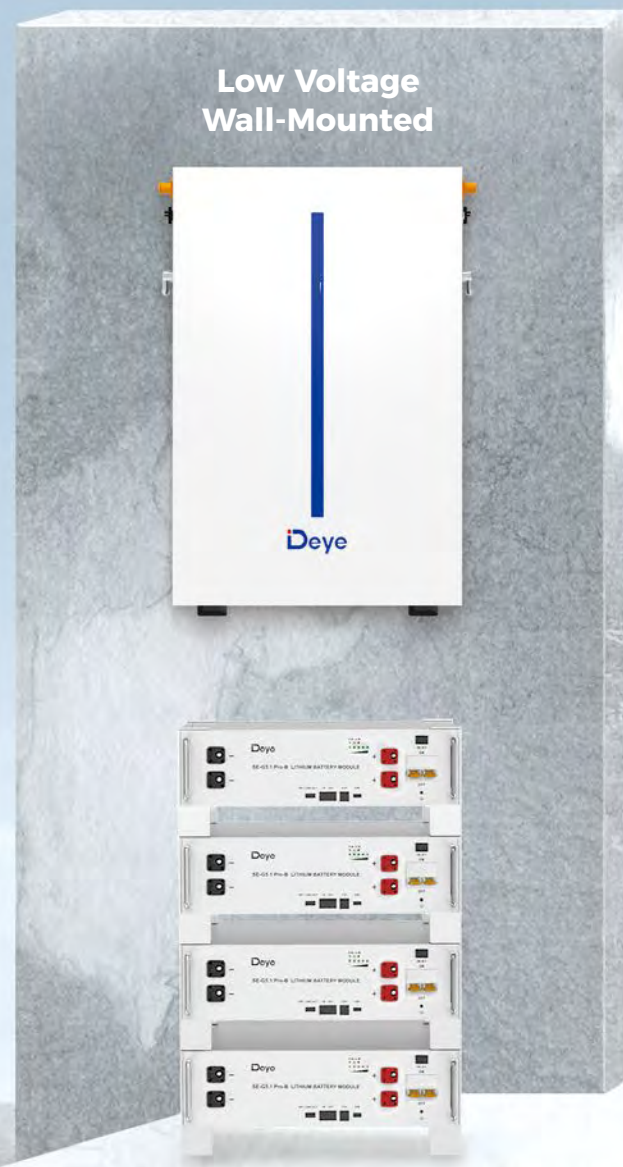
2007
Founded in 2007 with registered capital of 46 million USD.



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.
- RELIABLE** Support high discharge power. IP20,IP65, natural cooling, wide temperature range: -20°C to 55°C.
- FLEXIBLE** Modular design, easy to expand.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.





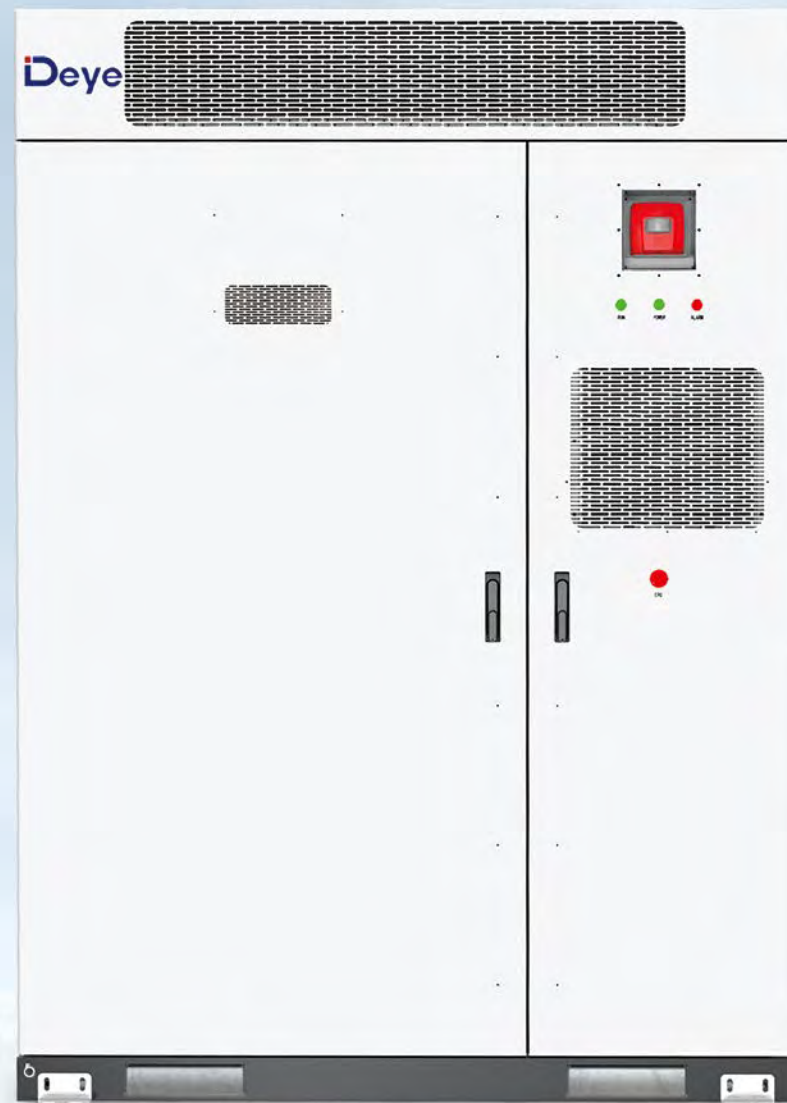
Low Voltage
Wall-Mounted



Low Voltage
Rack-Mounted



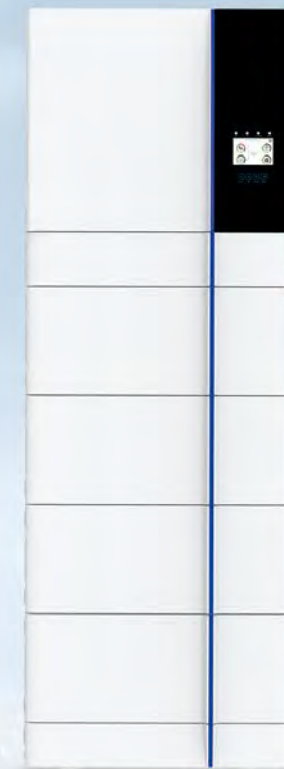
Low Voltage
All-in-one



High Voltage
Micro Grid System



High Voltage
All-In-One Hybrid ESS



High Voltage
All-in-one

LOW VOLTAGE SERIES

- SE-G5.3 P09
- SE-G5.1 Pro-B P11
- RW-F10.2&RW-F10.2-B P13
- RW-F10.6(AF) P15
- RW-F5.3-2H3 P17
- AE-FS2.0-2H2&AE-F2.0-2H2 P19
- RW-M5.3 Pro P21
- RW-M6.1-B P23
- AI-W5.1-B P25
- AI-W5.1-B-ESS P27



SE-G5.3



- Safer**
 Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan and high-energy density. Low Voltage safety connection.
- High Performance**
 Support 1C/1C continual charge and discharge. 6000 cycles at 90% DOD, and 5 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. 64 units in parallel (support batteries in parallel with different SOC, auto balance). Suited to residential and commercial applications for increasing the self-consumption ratio.
- Convenient**
 Battery module auto networking (No need to set DIP switches), easy maintenance, support Deye remotely monitoring and upgrade, support USB drive upgrade the firmware.
- Eco-Friendly**
 Use environmental protection materials, the whole module non-toxic, pollution-free.
- Multiple Mounting Methods**
 Standard 19 inch 3U design, support rack mounting, floor-mounted and wall-mounted with wall bracket, saving installation space.

Technical Data

Model		SE-G5.3
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) ^[1]	4.79	
Charge/Discharge Current (A) ^[2]	Recommend	50
	Max	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), Floor-Mounted, Wall - Mounted	
Communication Port	CAN2.0, RS485	
Warranty Period ^[3]	5 years	
Energy Throughput ^[3]	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.

SE-G5.1 Pro-B



Technical Data

Model		SE-G5.1 Pro-B
Main Parameter		
Battery Chemistry	LiFePO4	
Built-in Circuit Breaker	125A 2P, 60Vdc	
Capacity(Ah)	100	
Scalability	Max. 64 pcs pack in parallel (Max. 32 pcs no external setup)	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Nominal Energy (kWh)	5.12	
Usable Energy(kWh) ^[1]	4.6	
Charge/Discharge Current (A) ^[2]	Recommend	50
	Max	100
	Peak	150 (2mins, 25°C)
Other Parameter		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	440*133*540	
Weight Approximate (kg)	45	
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, 0.5C/0.5C, 90%DOD, 70%EOL)	
Installation	Wall-Mounted, Floor-Mounted,Rack-Mounted (19-inch standard cabinet, cabinet depth≥600mm)	
Communication Port	CAN2.0, RS485	
Warranty Period ^[3]	10 years	
Energy Throughput	16MWh@70%EOL	
Certification	UN38.3, IEC62619, CE,UK, VDE2510-50, CEI 0-21, FCC, UL1973, UL9540A	

[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.



- 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, 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.
- Three Mounting Methods**
 19inch Standard design, support rack-mounted, wall-mounted, and floor-mounted, saving installation space.

RW-F10.2&RW-F10.2-B



- 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 1.25C discharge.
 Maximum 6000 cycles at 90% DOD, and 10 years standard warranty.
- Reliable**
 Built-in Intelligent BMS, providing complete protection. Natural cooling, IP65, wide temperature range: -20°C to 55°C.
- Flexible**
 Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 327kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.
(RW-F10.2-B: Supports hand-in-hand rapid parallel expansion.)
- Convenient**
 Battery module auto networking(No DIP switch code), easy maintenance, support Deye remotely monitoring and upgrade. Also supports Deye inverters to form a stack all-in-one system.
- 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.

Technical Data

Model	RW-F10.2	RW-F10.2-B
Main Parameter		
Battery Chemistry	LiFePO4	
Built-in Circuit Breaker	125A 4P, 60Vdc	
Capacity(Ah)	200	
Scalability	Max. 32 pcs pack (Max.327kWh) in parallel	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Nominal Energy (kWh)	10.24	
Usable Energy(kWh) ^[1]	9.2	
Charge/Discharge Current (A) ^[2]	Recommend	100
	Max	Discharge: 250 / Charge: 200
	Peak	300 (2mins, 25°C)
Other Parameter		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	600*760*200(Without hanging board)	600*830*200(Without hanging board)
Weight Approximate (kg)	103	107
Master LED Indicator	5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)	
IP Rating of Enclosure	IP65	
Operating Temperature	Charge: 0~55°C / Discharge: -20°C~55°C	
Recommend Operating Temperature	/	15°C~35°C
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)	
Installation	Wall-Mounted, Floor-Mounted	
Communication Port	CAN2.0, RS485	
Warranty Period ^[3]	10 years	
Energy Throughput	32MWh(25°C, 0.5C/0.5C, 70%EOL)	
Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE2510-50, CEC	UN38.3, FCC, UL1973, UL9540A

[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.

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 5 years standard warranty.
- Reliable**
 Built-in Intelligent BMS, providing complete protection. Natural cooling, IP65, 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.

Technical Data

Model		RW-F10.6
Main Parameter		
Battery Chemistry	LiFePO4	
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) ^[1]	9.58	
Charge/Discharge Current (A) ^[2]	Recommend	104
	Max	Discharge: 250 / Charge: 200
	Peak	300 (2mins, 25°C)
Other Parameter		
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: 0~55°C / Discharge: -20°C~55°C	
Recommend Operating Temperature	15°C~35°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
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 ^[3]	5 years	
Energy Throughput	32MWh(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.

RW-F5.3-2H3



All-in-one Energy Storage System



- All-in-one design, integrated 3kW hybrid inverter and 5.3kWh LFP battery, safety and long lifespan.
- Comfortable and easy control via App, PC or Touch-Display.
Leading smart application: peak-shaving, smart load, AC couple etc.
- Flat design, wall-mounted, saving installation space, quick and easy installation.
- Fast switching time of 4ms, ensuring your energy security.
- Easy to expand, support multiple parallel, Max.16 units(48kW/84.8kWh). Also support expansion of Deye 5.3kWh battery, Max. 31 batteries expansion, Max. capacity of 164.3kWh.
- Built-in Intelligent BMS, providing complete protection. Natural cooling, IP65, wide temperature range: -20°C to 55°C.

Technical Data

Model	RW-F5.3-2H3
AC Technical Specification	
Nominal Output Power/UPS Power (W)	3000/3000
AC Output Frequency and Voltage	50Hz(45Hz-55Hz), L/N(PE), 220/230 Vac
Grid Type	Single phase
Peak Power (off grid)	2 time of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Power Factor	1
DC injection current(mA)	THD<3% (Linear load<1.5%)
DC Technical Specification	
Max. PV Input Power(W)	3900
Max. PV Input Current(A)	15
Rated PV Input Voltage(Vdc)	300 (125 ~ 450)
Start Up DC Voltage(Vdc)	125
MPPT Voltage Range(Vdc)	150 ~ 425
Max. PV Short-circuit Current(A)	18
Number of MPPT	1
Battery Chemistry	LiFePO4
Battery Nominal Voltage(V)	51.2
Battery Energy Configuration (kWh)	5.32
Max. Charging/Discharging Current(A)	75
Battery Operating Voltage(V)	43.2 ~ 57.6
Battery Cycle Life	≥6000(@25°C±2°C, 0.5C/0.5C, 70%EOL)
Other Technical Specification	
Dimension(W × D × H,mm)	596 × 241 × 640
Weight Appr.(kg)	76.5
Operating Temperature Range(°C)	Inverter: -40°C~60°C(>45°C derating), Battery Charge: 0 ~ 55°C/Discharge: -20°C ~ 55°C
Display	LCD
Relative Humidity	15% ~ 85% (No Condensing)
Safety EMC/Standard	IEC62619, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4
Grid Regulation	VDE4105, IEC61727/62116, VDE0126,AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Max. Efficiency	97.60%
Max. charging/discharging efficiency	95.50%
IP Rating of Enclosure	IP65
Installation Style	Wall-Mounted
Warranty	10 years

AE-FS2.0-2H2&AE-F2.0-2H2



- All-in-one design which integrated 1000W PV MPPT input(AE-FS2.0-2H2), 800W bidirectional AC/DC and 2kWh LFP battery. Safe and long life.
- Leading intelligent applications: dual MPPT(AE-FS2.0-2H2), AC coupling (compatible with 100% PV micro-inverter system), peak shaving, intelligent load, etc., can be used for balcony energy storage, portable outdoor power supply.
- Supports UPS load, fast switching within 4ms, to ensure stable and reliable power supply.
- Supports Bluetooth and WiFi to connect with mobile APP. Can easily know the system running state and save daily electricity costs. Support remote firmware update, always keep the latest application experience.
- Home electronics design, supports desktop placement and use, while supporting stack expansion. Optional wall-mounted accessories for hanging installation to save installation space.
- Supports capacity expansion. 4 sets AE-F2.0 batteries can be added, and the maximum capacity of the system can reach 10kWh.
- Supports outdoor use, with USB-A and Type C charging interfaces, natural cooling, built-in intelligent BMS. Provides comprehensive protection, and a wide operating temperature range of -10°C~50°C.

Technical Data

Model	AE-F2.0-2H2	AE-FS2.0-2H2
AC Technical Specification		
Nominal Input/Output Power/UPS Power(W)	800/800	
AC Output Frequency and Voltage	50Hz(45Hz-55Hz), L/N(PE), 220/230 Vac	
Grid Type	Single phase	
Rated Grid input/output Current(A)	3.5	
Max. Grid input/output Current(A)	3.7	
Peak Power (off grid)	2 time of rated power, 10s	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Power Factor	1	
DC injection current(mA)	THD<3% (Linear load<1.5%)	
DC Technical Specification		
Max. PV Input Power(W)	/	1000
Max. PV Input Current(A)	/	15
Max. PV Short-circuit Current(A)	/	18
Rated PV Input Voltage(Vdc)	/	35(20 ~ 60)
Start Up DC Voltage(Vdc)	/	25
MPPT Voltage Range(Vdc)	/	20 ~ 60
Number of MPPT	/	2
Battery Chemistry	LiFePO4	
Battery Nominal Voltage(V)	51.2	
Battery Nominal Capacity(Ah)	40	
Battery Nominal Energy(kWh)	2.048	
Max. Charging/Discharging Current(A)	25	
Battery Operating Voltage(V)	43.2 ~ 57.6	
Battery Cycle Life	≥6000(@25°C±2°C, 0.5C/0.5C, 70%EOL)	
Other Technical Specification		
Display	LCD & APP	
Communication interfaces	Wifi, Bluetooth	
Dimension (W x D x H,mm)	450 x 210 x 323	
Weight Appr.(kg)	20	
Operating Temperature Range(°C)	-10°C ~ 50°C	
Max. operating altitude(m)	3000	
Relative Humidity	15% ~ 85% (No Condensing)	
Safety EMC/Standard	IEC62619, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150	
Battery Certification	UN38.3, IEC62619	
Max. charging/discharging efficiency	95.0%	
Installation Style	Floor-Mounted, Wall-Mounted (Optional)	
Warranty	10 years	

RW-M5.3 Pro



- 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, IP20, wide temperature range: -20°C to 55°C.
- Flexible**
 Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 170kWh. 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 & Rack-Mounted**
 Flat design, support wall-mounted or 19inch rack, saving installation space.

Technical Data

Model		RW-M5.3 Pro
Main Parameter		
Battery Chemistry	LiFePO4	
Built-in Circuit Breaker	125A 1P, 125Vdc	
Capacity(Ah)	104	
Scalability	Max.32 pcs in Parallel(170kWh)	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Nominal Energy (kWh)	5.32	
Usable Energy(kWh) ^[1]	4.79	
Charge/Discharge Current (A) ^[2]	Recommend	50
	Max	100
	Peak	150 (2mins, 25°C)
Other Parameter		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	440*581*165(Without hanging board and handle)	
Weight Approximate (kg)	45	
Master LED Indicator	5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)	
IP Rating of Enclosure	IP20	
Operating Temperature	Charge:0~ 55°C / Discharge:-20°C ~ 55°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C±2°C 90%DOD, 0.5C/1C,70%EOL)	
Installation	Wall-Mounted, 19inch Rack-mounted	
Communication Port	CAN2.0, RS485	
Warranty Period ^[3]	5 years	
Energy Throughput	16MWh@70%EOL	
Certification	UN38.3, CE, IEC62619	

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System capacity and 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.

RW-M6.1-B



- 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, easy maintenance, remotely monitoring and upgrade, support USB drive upgrade the firm ware.
- Eco-Friendly**
 Use environmental protection materials, the whole module non-toxic, pollution-free.
- Wall-Mounted & Floor-Mounted**
 Flat design, support wall-mounted and floor-mounted, saving installation space.

Technical Data

Model		RW-M6.1-B
Main Parameter		
Battery Chemistry	LiFePO4	
Built-in Circuit Breaker	125A 2P, 60Vdc	
Capacity(Ah)	120	
Scalability	Max.32 pcs in Parallel(196kWh)	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Energy (kWh)	6.14	
Usable Energy(kWh) ^[1]	5.53	
Charge/Discharge Current (A) ^[2]	Recommend	60
	Max	100
	Peak	150 (2mins, 25°C)
Other Parameter		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	510*740*145(Without Base,depth of 161mmwith Hanging Board)	
Weight Approximate (kg)	58	
Master LED Indicator	5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)	
IP Rating of Enclosure	IP65	
Operating Temperature	Charge:0~ 55°C / Discharge:-20°C ~ 55°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C± 2°C,0.5C/0.5C,90%DOD,70%EOL)	
Installation	Wall-Mounted, Floor-Mounted	
Communication Port	CAN2.0, RS485	
Warranty Period ^[3]	10 years	
Energy Throughput	20MWh@70%EOL	
Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE2510-50	

[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.

[3] Conditions apply, refer to Deye Warranty Letter.

AI-W5.1-B



- 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. 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, easy maintenance, support remotely monitoring and upgrade the firmware.
- Eco-Friendly**
 Use environmental protection materials, the whole module non-toxic, pollution-free.
- Wall-Mounted**
 Flat and stackable design, support wall-mounted & floor-mounted, no wiring, rapid and easy installation.

Technical Data

Model		AI-W5.1-B					
Main Parameter							
Battery Chemistry	LiFePO4						
Built-in Circuit Breaker	125A 2P, 60Vdc						
Battery Module Energy (kWh)	5.12						
Battery Module Voltage (V)	51.2						
Battery Module Capacity (Ah)	100						
Scalability	1	2	3	4	5	6	
Nominal Voltage (V)	51.2						
Operating Voltage(V)	43.2~57.6						
Nominal Energy (kWh)	5.12	10.24	15.36	20.48	25.6	30.72	
Usable Energy (kWh) ^[1]	4.6	9.2	13.8	18.4	23	27.6	
Charge/Discharge Current (A) ^[2]	Recommend	50	100	150	200	250	
	Max	180	180	250	250	250	
	Peak(10s,25°C)	150	270	360	360	360	
Other Parameter							
Recommend Depth of Discharge	90%						
System Dimension (W/D/H, mm)	720*255*569	720*255*850	720*255*1131	720*255*1412	720*255*1693	720*255*1974	
System Weight (kg)	74.5	127.5	180.5	233.5	286.5	339.5	
Battery Module Dimension (W/D/H, mm)	720*255*300 (without terminal parts)						
Battery Module Weight (kg)	53						
MasterLED Indicator	Battery module: 3LED (working, alarming, protecting), PDU module: 5LED(SOC:20%~100%)&3LED (working, alarming, protecting)						
IP Rating of Enclosure	IP65 (after stacking)						
Operating Temperature	Charge:0~55°C / Discharge: -20°C~55°C						
Storage Temperature	0°C~35°C						
Humidity	5%~95%						
Altitude	≤2000m						
Installation	Wall-Mounted, Floor-Mounted						
Communication Port	CAN2.0, RS485						
Cycle Life	≥6000(25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)						
Energy Throughput	16MWh(Battery Module @ 70%EOL)						
Warranty Period ^[3]	10 years						
Certification	UN38.3, IEC62619, CE, UK, VDE2510 -50, CEI 0-21,CE-LVD, 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.

[3] Conditions apply, refer to Deye Warranty Letter.

AI-W5.1-3.6/5/6/7.6/8P1-EU-B-ESS



All-in-one Energy Storage System

- All-in-one design, integrated 3.6kW~8kW Single Phase 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 mounted, no wiring and extra fixing screws, quick and easy installation.
- Fast switching time of 4ms, ensuring your energy security.

Technical Data

Model	AI-W5.1-3.6P1-EU-B	AI-W5.1-5P1-EU-B	AI-W5.1-6P1-EU-B	AI-W5.1-7.6P1-EU-B	AI-W5.1-8P1-EU-B
System Specification					
Nominal Output Power/UPS Power (W)	3600/3600	5000/5000	6000/6000	7600/7600	8000 / 8000
AC Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac				
Grid Type	Single Phase				
Recommended Energy Configuration	5kWh(Min.)		10kWh(Min.)		
Max. Charging/Discharging Current (A)	90	120	135	190	190
Battery Operating Voltage (V)	43.2 ~ 57.6				
Battery Chemistry	LiFePO ₄				
IP Rating of Enclosure	IP65 (after stacking)				
System Certification	IEC62619, IEC60730, CE, VDE2510-50, CEI 0-21				
Warranty ^[1]	Battery 10 years (Inverter 5 years)				
Inverter Technical Specification					
Max. PV Input Power (W)	4680	6500	7800	9880	10400
Rated PV Input Voltage (Vdc)	370 (125~500)				
Start Up DC Voltage (Vdc)	125				
MPPT Voltage Range (Vdc)	150-425				
Full Load DC Voltage Range (V)	300~425		200~425		
Max. PV Input Current (A)	13+13		26+26		
Max. PV Short-circuit Current (A)	17+17		34+34		
No. of MPP Trackers	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%)				
Display	LCD				
Relative Humidity	15% ~ 85% (No Condensing)				
Dimension (W x D x H,mm)	720x255x330				
Weight (kg)	34				
Communication with BMS	CAN2.0				
Safety	IEC/EN 62109-1,IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4				
Grid Regulation	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 0-21,EN50549-1, G98,G99,C10-11,UNE217002,NBR16149/NBR16150				
Max. Efficiency	97.60%				
Max. charging/discharging efficiency	95.50%				
Battery Technical Specification					
Built-in Circuit Breaker	125A 2P, 60Vdc				
Nominal Voltage (V)	51.2				
Battery Module Energy (kWh)	5.12				
Module Scalability	Max.36 pcs in parallel(Max. capacity of 184kWh)				
Battery Module Dimension	720*255*300(W x D x H,mm)				
Battery Base Dimension	720*255*68(W x D x H,mm)				
Battery PDU3 Dimension	720*255*228(W x D x H,mm)				
Battery Module Weight (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,90%DOD,70%EOL)				
Battery Module Certification	IEC62619, CE, UK, VDE2510 -50, CEI 0-21, UN38.3, CE-LVD, CEC				

[1] Conditions apply, refer to Deye Warranty Letter.

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



All-in-one Energy Storage System

- All-in-one design, integrated 5kW~12kW Three Phase 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 mounted, no wiring and extra fixing screws, quick and easy installation.
- Fast switching time of 4ms, ensuring your energy security.

Technical Data

Model	AI-W5.1-5P3-EU-B	AI-W5.1-6P3-EU-B	AI-W5.1-8P3-EU-B	AI-W5.1-10P3-EU-B	AI-W5.1-12P3-EU-B
System Specification					
Nominal Output Power/UPS Power (W)	5000 / 5000	6000 / 6000	8000 / 8000	10000 / 10000	12000 / 12000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac				
Grid Type	Three Phase				
Recommended Energy Configuration	5kWh(Min.)		10kWh(Min.)		15kWh(Min.)
Max. Charging/Discharging Current (A)	120	150	190	210	240
Battery Operating Voltage (V)	43.2 ~ 57.6				
Battery Chemistry	LiFePO ₄				
IP Rating of Enclosure	IP65 (after stacking)				
System Certification	IEC62619, IEC60730, CE, VDE2510-50, CEI 0-21				
Warranty ^[1]	Battery 10 years (Inverter 5 years)				
Inverter Technical Specification					
Max. PV Input Power (W)	6500	7800	10400	13000	15600
Rated PV Input Voltage (Vdc)	550 (160~800)				
Start Up DC Voltage (Vdc)	160				
MPPT Voltage Range (Vdc)	200~650				
Full Load DC Voltage Range (V)	350~650				
Max. PV Input Current (A)	13+13		26+13		
Max. PV Short-circuit Current (A)	17+17		34+17		
No. of MPP Trackers	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%)				
Display	LCD				
Relative Humidity	15% ~ 85% (No Condensing)				
Dimension (W x D x H,mm)	720x255x440				
Weight (kg)	38				
Communication with BMS	CAN2.0				
Safety	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4				
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0-21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150				
Max. Efficiency	97.60%				
Max. charging/discharging efficiency	95.50%				
Battery Technical Specification					
Built-in Circuit Breaker	125A 2P, 60Vdc				
Nominal Voltage (V)	51.2				
Battery Module Energy (kWh)	5.12				
Module Scalability	Max.36 pcs in parallel(Max. capacity of 184kWh)				
Battery Module Dimension	720*255*300(W x D x H,mm)				
Battery Base Dimension	720*255*68(W x D x H,mm)				
Battery PDU3 Dimension	720*255*228(W x D x H,mm)				
Battery Module Weight (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,90%DOD,70%EOL)				
Battery Module Certification	IEC62619, CE, UK, VDE2510 -50, CEI 0-21, UN38.3, CE-LVD, CEC				

[1] Conditions apply, refer to Deye Warranty Letter.

HIGH VOLTAGE SERIES

▪ BOS-G(Pro)	P33
▪ GB-L	P35
▪ GB-SL-EU	P37
▪ GE-F60-EU	P41
▪ GE-FL60 & GE-FH60	P43
▪ MS-G215 & MS-G230	P45
▪ GE-F120-2H2	P47



BOS-G (Pro)



- Convenient**
 Quick installation, standard of 19-inch embedded designed module is comfortable for installation and 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, overcurrent 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 upgrade (Compatible with Deye inverter).
- Wide Temperature**
 Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

Technical Data

Model	BOS-G			BOS-G Pro		
Main Parameter						
Cell Chemistry	LiFePO4					
Module Energy (kWh)	5.12					
Module Nominal Voltage (V)	51.2					
Module Capacity (Ah)	100					
Battery Module Qty in series. (Optional)	3(Min)	8	12(Max)	5(Min)	8	17(Max)
System Nominal Voltage (V)	153.6	409.6	614.4	256	409.6	870.4
System Operating voltage (V)	124.8~175.2	332.8~467.2	499.2~700	200~292	332.8~467.2	680~992.8
System Energy (kWh)	15.36	40.96	61.44	25.6	40.96	87.04
System Usable Energy (kWh) ^[1]	13.8	36.86	55.29	23.04	36.86	78.33
Charge/Discharge Current (A) ^[2]	Recommend	50				
	Max	100				
	Peak Discharge	125 (2mins, 25°C)				
Working Temperature (°C)	Charge: 0~55°C/Discharge: -20°C~55°C					
Status Indicator	Yellow: Battery High Voltage Power On Red: Battery System Alarm					
Communication Port	CAN2.0/RS485					
Humidity	5~85%RH					
Altitude	≤2000m			≤3500m		
IP Rating of Enclosure	IP20					
Dimension (W×D×H, mm)	589×590×1640		589×590×2240		589×590×1640	
Weight Approximate (kg)	258	434	628	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, VDE2510-50, UL1973, UL9540A, UN38.3			CE, IEC62619, VDE2510-50, UN38.3		

[1] DC Usable Energy, test conditions: 90% DOD, 0.2C/0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

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

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

GB-L



- Structural Safety**
 Built in explosion relief device to dredge gas, and built in fire protection device to cut off the fire source for 3 seconds.
- High-voltage Stack**
 Modules are connected in series without cable connection, and high-voltage platform improves system efficiency.
- Thermal Management**
 Temperature detection of key parts, cell, power plug-in, etc.
- Wide Temperature Operation**
 The heating function is optional to meet the application scenarios with low temperature and no sense.
- Environmental Friendliness**
 IP protection grade 65, anti-corrosion grade $\geq C2$, environmental protection battery.
- Intelligent And Visual**
 Support remote upgrade, real-time battery warning information push, LCD data display.

Technical Data

Model		GB-L				
Main Parameter						
Battery Chemistry	LiFePO4					
Module Energy (kWh)	4.09					
Module Nominal Voltage (V)	102.4					
Module Capacity (Ah)	40					
Battery Module Qty In Series (Optional)	2	3	4	5	6	
System Nominal Voltage (V)	204.8	307.2	409.6	512	614.4	
System Operating voltage (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	
Charge/Discharge Current (A) ^[2]	Recommend	20				
	Max	40				
	Peak(10s,25°C)	50 (2mins,25°C)				
Working Temperature (°C)	Charge: 0~55°C/Discharge: -20°C~60°C					
LCD Display	SOC%, Power, Total Voltage					
Communication Port	CAN2.0, RS485					
Humidity	5%~90%					
Altitude	$\leq 2000m$					
IP Rating of Enclosure	IP65					
Storage Temperature (°C)	0~35					
Dimension (WxDxH, mm)	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-Mounted					
Recommend Depth of Discharge	90%					
Cycle Life	25±2°C,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.

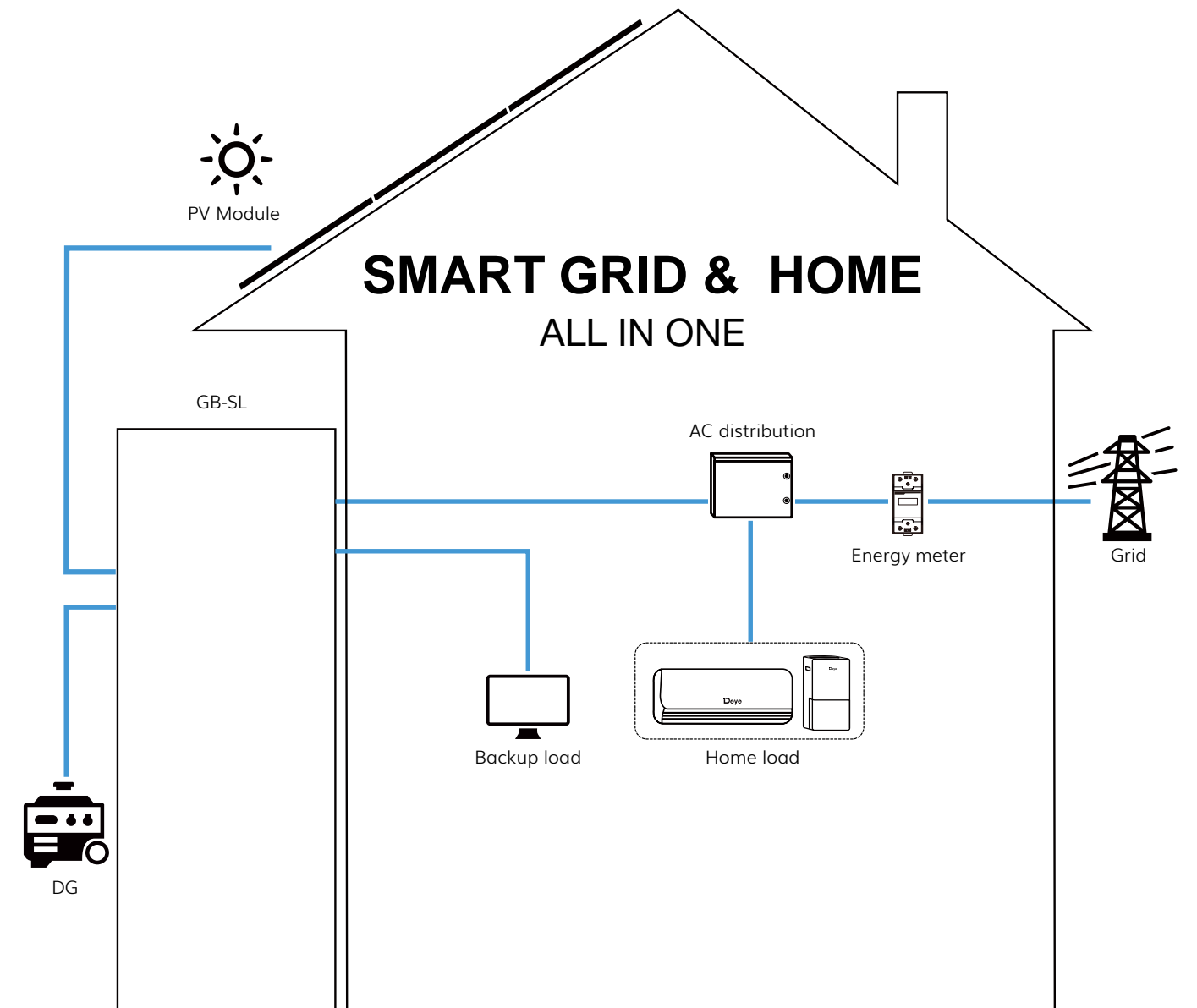
[3] The warranty is due whichever reached first of warranty period or life cycle power.

GB-SL-EU



- All In One**
 Integrated design, beautiful appearance and scene integration.
- Maximum Output**
 100% unbalanced output, each phase; Max. output up to 50% rated power.
- Maximum Connection**
 Max. 10 pcs parallel for on-grid and off-grid operation.
- More Support**
 Support storing energy from diesel generator.
- High-voltage Stack**
 Modules are connected in series without cable connection, and high-voltage platform improves system efficiency.
- Thermal Management**
 Temperature detection of key parts, cell, power plug-in, etc.
- Wide Temperature Operation**
 The heating function is optional to meet the application scenarios with low temperature and no sense.

TYPICAL APPLICATION DIAGRAM



Technical Data

Model	GB-S5K-EU	GB-S6K-EU	GB-S8K-EU	GB-S10K-EU	GB-S12K-EU	GB-S15K-EU	B-S20K-E
Battery Input Data							
Battery Type	LiFePO4						
Battery Voltage Range (V)	160~700						
Max. Charging Current (A)	30						37
Max. Discharging Current (A)	30						37
Number of battery input	1						
Charging Strategy for Li-Ion Battery	Self-adaption to BMS						
PV String Input Data							
Max. DC Input Power (W)	6500	7800	10400	13000	15600	19500	26000
Max. DC Input Voltage (V)	1000						
Start-up Voltage (V)	150						
MPPT Range (V)	150-850						
Full Load DC Voltage Range (V)	195-850	260-850	325-850	340-850	420-850	500-850	
Rated DC Input Voltage (V)	600						
PV Input Current (A)	20+20			26+20		26+26	
Max. PV I SC (A)	23+23			39+30		39+39	
No.of MPP Trackers	2						
No.of Strings per MPP Tracker	1+1		2+1		2+2		
AC Output Data							
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000	15000	20000
Max. AC Output Power (W)	5500	6600	8800	11000	13200	16500	22000
AC Output Rated Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29
Max.AC Output (Off-grid) Current(A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9
Max. Three-phase Unbalanced Output Current(A)	13	13	18	22	25	30	35
Max. Continuous AC Passthrough (A)	40			80			
Peak Power (off grid)	1.5 time of rated power, 10 S						
Generator input/Smart load /AC couple current (A)	7.6/40/7.6	9.1/40/9.1	12.2/40/12.2	15.2/40/15.2	18.2/80/18.2	22.8/80/22.8	30.4/80/30.4
Power Factor	0.8 leading to 0.8 lagging						
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac						
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, Arc Fault Circuit Interruption (AFCI optional)						
Output Over Voltage Protection	DC Type II / AC Type III						
Certifications and Standards							
Grid Regulation	VDE 0126-1-1, RD 1699, C10-11 CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
General Data							
Operating Temperature Range (°C)	-40~60°C, >45°C derating						
Cooling	Free cooling	Smart cooling					
Communication with BMS	CAN						
Warranty	5 years						

Technical Data

Model	GB-LM4.0				
Battery System Data					
Cell Chemistry	LiFePO4				
Module Energy (kWh)	4.09				
Module Nominal Voltage (V)	102.4				
Module Capacity (Ah)	40				
Battery Module Qty in series. (Optional)	2	3	4	5	6
System Nominal Voltage (V)	204.8	307.2	409.6	512	614
System Operating voltage (V)	179.2~691.2				
System Energy (kWh)	8.18	12.27	16.36	20.45	24.57
System Usable Energy (kWh) ^[1]	7.36	11.04	14.72	18.40	22.11
Charge/Discharge Current (A) ^[2]	Recommend	20			
	Max	40			
	Peak	50@2min			
Working Temperature (°C)	Charge: -20~55°C/Discharge:-20°C~60°C				
Communication Port	CAN2.0/RS485				
Thermal Management	Natural Cooling				
Recommend Depth of Discharge	90%				
Cycle Life	25±2°C,0.5C/0.5C,70%EOL≥6000				
Warranty ^[3]	10 years				
Certification	IEC62619, CE, VDE2510-50, CEI 0-21, UN38.3				
Other Data					
Humidity	5~85%RH				
Altitude (m)	≤2000				
IP Rating of Enclosure	IP65				
Noise (dB)	<55				
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 Approximate (kg)	137	176	215	254	293
Installation Location	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.

GE-F60-EU



All-In-One Hybrid ESS GE-F60 (50KW/60KWh)

- Rated power operation the maximum temperature of the battery is less than 40°C.
- EMS, hybrid inverter and BMS integrated technology, power supply redundancy design, support black start function, Off grid operation, etc.
- Suitable for high rate cyclic charging and discharging scenarios.
- Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution.
- Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm .
- Supports battery expansion, with a maximum capacity of 360KWh

Technical Data

Model	GE-F60-EU
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)	735x1045x2235(no contain inverter)
Weight Appr. (kg)	1015(battery)+80(inverter)
AC Output Rated Current (A)	75.8
Battery Operating Voltage (V)	500 ~ 700
Max. charging/discharging efficiency	91%
Battery Chemistry	LiFePO4
IP Rating of Enclosure	IP55
Installation Style	Floor-Mounted
Warranty	10 years
Inverter Technical Specification	
Max. PV Input Power (W)	65000
Max. PV Input Current (A)	36+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)	55+55+55+55
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)	<0.5%In
Display	LCD
Operating Temperature Range (°C)	-40~60(>45°C derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	527x294x894
Inverter Communication	CAN,RS485,WIFI,ETH
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, 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
Grid Regulation	
Max. Efficiency	97.6%
MPPT Efficiency	99.9%
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)	45
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 Certification	CE, IEC62619, IEC62040, UN38.3

GE-FL60 & GE-FH60



- Rated power operation the maximum temperature of the battery is less than 40°C.
- **GE-FL60:**
BMS integrated technology, power supply redundancy design, support black start function, Off grid operation, etc.
- **GE-FH60:**
EMS, hybrid inverter and BMS integrated technology, power supply redundancy design, support black start function, Off grid operation, etc.
- Suitable for high rate cyclic charging and discharging scenarios.
- Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution.
- Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm.
- Supports battery expansion, with a maximum capacity of 360KWh.

Technical Data

Model	GE-FL60	GE-FH60
Main Parameter		
Cell Chemistry	LiFePO4	
Module Energy (kWh)	5.12	
Module Nominal Voltage (V)	51.2	
Module Capacity (Ah)	100	
Battery Module Qty In Series (Optional)	6(Max)	12
System Nominal Voltage (V)	307.2	614.4
System Operating Voltage (V)	240~350	500~750
System Energy (kWh)	61.44	
System Usable Energy (kWh) ^[1]	55.29	
Charge/Discharge Current (A) ^[2]	Recommend	100
	Nominal	100
	Peak Discharge	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	IP55	
Dimension (W/D/H,mm)	735x1045x2235	
Weight Approximate (kg)	1015	
Installation Location	Floor-Mounted	
Storage Temperature (°C)	0~35	
Recommend Depth of Discharge	90%	
Cycle Life	≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	
Warranty ^[3]	10 years	
Certification	UL1973, UL9540A, UN38.3	

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

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

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

MS-G215 & MS-G230



- Multi fusion**
 Built-in EMS, PCS and BMS, power supply redundancy design, support black start and other functions.
- Intelligent temperature control**
 Rated power operation, the maximum temperature of the battery is less than 38°C, and the temperature difference below 5°C.
- Scalable**
 Support the expansion of MPPT module, charging module, and diesel generator connection.
- Reliable**
 One cluster one management, cloud-edge collaboration, real-time data monitoring, fault warning.
- Safety**
 Lithium Iron Phosphate (LFP) Battery, system adopt an aerosol fire extinguishing solution.
- High protection**
 1 hour flame retardant protection, C4 shell protection.

Technical Data

Model	MS-G215	MS-G230
System Specification		
Nominal Output Power (KW)	100	
AC Output Frequency and Voltage	50/60Hz; 380/400Vac	
Grid Type	3L/PE	
Energy (kWh)	215	230
Dimension (W×D×H,mm)	1750×980×2500	
Weight Appr. (kg)	2695	2.8T
Battery Operating Voltage (V)	660~876	704~900
Max. RTE	88.5%	
System Communication	ETH/4G	
System Operating temperature range(°C)	-20~45	
Max. working altitude(m)	≤3000	
IP Rating of Enclosure	IP54	
Anti-corrosion grade	C4	
Installation Style	Floor-Mounted	
Warranty	10 years	
Converter Specification		
AC Output Rated Current (A)	152	
MAX. AC Output Current(A)	167	
MAX.number of parallel	12	
Peak Power (off grid)	1.1	
Power Factor	-1~1	
THD	<3%	
DC injection current	<0.5In	
Operating Temperature Range (°C)	25~65(>45°C derating)	
Relative Humidity	15%~85% (No Condensing)	
Dimension (W×D×H, mm)	458×780×220	
Communication	CAN,RS485, ETH	
Overvoltage protection	DC Type II / AC Type II	
Protection level	Class 1	
Max. Efficiency	98.5%	
Battery Specification		
Battery Chemistry	LPF-280Ah	
Battery Module Nominal Voltage (V)	51.2	
Battery Module Energy (kWh)	14.3	
Communication	CAN	
Battery Module Dimension (W×D×H mm)	526×784.5×230	
Battery Module Weight(kg)	105	
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)	

GE-F120-2H2



High Voltage All-In-One Hybrid ESS GE-F120-2H2 (50KW/120KWh)

- Rated power operation the maximum temperature of the battery is less than 35°C.
- Suitable for high rate cyclic charging and discharging scenarios.
- Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm.
- All in One integrated technology, contain pcs, inverter, DC charging(30KW), Battery(BMS) and EMS; power supply redundancy design, support black start function,Off grid operation,etc.
- Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution.
- Supports battery expansion, with a maximum capacity of 120KWh.

Technical Data

Model	GE-F120-S50
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
Number of parallel	6
Energy Configuration (kWh)	122.8
Dimension (W x D x H,mm)	1764x1050x2250
Weight Appr. (kg)	1980
AC Output Rated Current (A)	75.8
Battery Operating Voltage (V)	500 ~ 700
Max. charging/discharging efficiency	91%
Battery Chemistry	LiFePO4
IP Rating of Enclosure	IP55
Installation Style	Floor-Mounted
Warranty	10 years
Inverter Technical Specification	
Max. PV Input Power (W)	65000
Max. PV Input Current (A)	36+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)	55+55+55+55
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)	<0.5%In
Display	LCD
Operating Temperature Range (°C)	-40~60(>45°C derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	527x294x894
Inverter Communication	CAN,RS485,WIFI,ETH
Grid Regulation	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 0 21,EN50549-1,G98,G99,C10-11,UNE217002,NBR16149/NBR16150
Max. Efficiency	97.6%
MPPT Efficiency	99.9%
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/0.5C,70%EOL)
Battery Module Certification	UN38.3, IEC62619, IEC61000

