Deye
Stock code:605117

WORLD LEADING

ENERGY STORAGE SYSTEM PROVIDER

Deye Energy Storage Product Catalog

Global

Deye

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Cixi, Ningbo, Zhejiang, P.R.China

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 sales@deye.com.cn

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To Make ESS Better

About Deye

Leading provider of energy storage system solutions

WORLD LEADING

Ningbo Deye Technology Co., Ltd. is a comprehensive tech manufacturing enterprise, integrating R&D, design, production, sales, and service. It operates modern intelligent production facilities in Ningbo, Jiaxing, and other locations, spanning over 600,000 square meters with complete production and testing equipment. Listed on the Shanghai Stock Exchange in April 2021.

CORE INDUSTRY CHAIN

01
The solar & hybrid inverter

02
The heat exchanger series

03
The environmental electrical appliance series

04
The lithium battery energy storage system

DEVELOPMENT HISTORY

1990
Mold Injection
Deye originated in manufacturing injection molded parts, molds, and sheet metal.

2000
Environmental Appliances
Deye's dehumidifiers have been leading sales on Tmall and JD.com for years.

2007
Inverter Solutions
Deye Inverter was established and became a provider of inverter solutions.

2016
Photovoltaic Inverter
Deye's residential and small-scale C&I inverters have been rapidly evolving to provide customized solutions.

2020
Energy Storage
Deye has been offering low-voltage, high-voltage batteries, and All-in-One ESS that work seamlessly with Deye's storage inverters.

2021
Listed on SSE
In April, Deye listed on the main board of the Shanghai Stock Exchange.

2023
Intelligent Energy
Deye established Deye Cloud and energy storage R&D center in Shanghai.

About Deye ESS

Leading provider of energy storage system solutions

Deye ESS, based in Cixi, Ningbo, encompasses facilities spanning over 180,000 square meters. These facilities integrate an R&D center, battery pack assembly, BMS (Battery Management Systems), EMS (Energy Management Systems), sheet metal processing lines, and spray lines, among others. The current annual production capacity is 600,000 battery pack sets, with an expected increase to up to 6 GWh by 2025.

employing over

500 top-tier researchers

In Continuous Innovation

Deye is committed to continuous innovation with significant R&D capabilities in Shanghai and Ningbo, employing over 500 top-tier researchers and thousands of technical staff.

6GWH+
Capacity 2025

600,000+
Packs Capacity

180,000+
Sqm

300+
R&D Engineers

Deye ESS

Global layout

Leading provider of energy storage system solutions

Deye ESS

120 +
Country of sale

8
Overseas service centers

4 million +
Equipment in Operation

Exported to over 120 countries and regions worldwide
There are 8 overseas service centers

1

Spring Series

Residential ESS Solution

SE-G5.3 (AS、AF、LATAM)

Safer

LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support high discharge power and natural cooling
Use high-quality environmental protection materials

Enhanced Reliability

≥ 6000 Cycles, 90%DOD, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP20-rated for dust protection

Exceptional Performance

Support Max. 1C / 1C continuous charging and discharging
Peak discharge current of 150A 2mins

More Flexible

Modular design, easy to expand
Support Max. 64 units in parallel
The max power of the system can reach 340kWh
Suitable for residential and commercial use

Smarter

Battery module auto networking (No DIP switch code)
Support remotely monitoring and upgrade
Support USB drive upgrade the firmware

Residential ESS Solution

Rack-Mounted Battery (LV)

Technical Data		SE-G5.3 (AS、AF、LATAM)
Main Parameter		
Battery Type		$LiFePO_4$
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
Rated Energy (kWh)		5.32
Usable Energy (kWh)		4.79
Charge / Discharge Current (A)	Recommend	50
	Max	100
	Peak	150 (2mins,25℃)
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℃ (Optional heating) / Discharge : -20℃ ~ 55℃
Storage Temperature (℃)		0℃ ~ 35℃
Humidity		5%~95%
Altitude		≤ 2000m
Cycle Life		≥ 6000 (25℃ ± 2℃ , 0.3C / 0.3C, 90%DOD, 70%EOL)
Installation Location		19-inch standard rack (depth ≥ 600mm / with), Floor-Mounted, Wall-Mounted
Communication Port		CAN2.0, RS485
Warranty Period		5 /10 years
Energy Throughput		16MWh@70%EOL
Certification		CE, IEC 62619, UN38.3

*Wall-Mounted, Rack-Mounted, Floor-Mounted

SE-G5.1 Pro-B (EU、NA)

Safer
LFP Battery：safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support high discharge power and natural cooling
Use high-quality environmental protection materials

Enhanced Reliability
≥ 6000 Cycles, 90%DOD, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range：-20℃ ~ 55℃
IP20-rated for dust protection

Exceptional Performance
Support Max. 1C / 1C continuous charging and discharging
Peak discharge current of 150A 2mins

More Flexible
Modular design, easy to expand
Support Max. 64 units in parallel
The max power of the system can reach 327kWh
Suitable for residential and commercial use

Smarter
Battery module auto networking (No DIP switch code)
Support remotely monitoring and upgrade
Support USB drive upgrade the firmware

Residential ESS Solution

Rack-Mounted Battery (LV)

Technical Data		SE-G5.1 Pro-B (EU、NA)
Main Parameter		
Battery Type		$LiFePO_4$
Built-In Circuit Breaker		125A 2P, 60Vdc
Capacity (Ah)		100
Scalability		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
Rated Energy (kWh)		5.12
Usable Energy (kWh)		4.6
Charge/Discharge Current (A)	Recommend	50
	Max	100
	Peak	150
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℃ (Optional heating：-20℃ ~ 55℃), Discharge：-20℃ ~ 55℃
Storage Temperature (℃)		0℃ ~ 35℃
Humidity		5% ~ 95%
Altitude		≤ 2000m
Cycle Life		≥ 6000 (25℃ ±2℃ ,0.5C / 0.5C,90%DOD,70%EOL)
Installation Location		Wall-Mounted, Floor-Mounted, Rack-Mounted (19-inch standard cabinet, cabinet depth ≥ 600mm)
Communication Port		CAN2.0, RS485
Warranty Period		10 years
Energy Throughput		16MWh@70%EOL
Certification		UN38.3, IEC 62619, CE,UK, VDE 2510-50, CEI 0-21, FCC, UL 1973, UL 9540A

*Wall-Mounted, Rack-Mounted, Floor-Mounted

RW-M5.3 Pro
(AS、AF、LATAM)

Safer
LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support natural cooling
Use high-quality environmental protection materials

Enhanced Reliability
≥ 6000 Cycles, 90%DOD, 70%EOL
5 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP20-rated for dust protection

Exceptional Performance
Support Max. 1C / 1C continuous charging and discharging
Peak discharge current of 150A 2mins

More Flexible
Modular design, easy to expand
Support Max. 32 units in parallel
The max power of the system can reach 170kWh
Suitable for residential and commercial use

Smarter
Battery module auto networking (No DIP switch code)
Support remotely monitoring and upgrade
Support USB drive upgrade the firmware

Residential ESS Solution

Wall-Mounted Battery (LV)

Technical Data		RW-M5.3 Pro (AS、AF、LATAM)
Main Parameter		
Battery Type		$LiFePO_4$
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
Rated Energy (kWh)		5.32
Usable Energy (kWh)		4.79
Charge / Discharge Current (A)	Recommend	50
	Max	100
	Peak	150 (2mins,25℃)
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℃ / Discharge : -20℃ ~ +55℃
Storage Temperature (℃)		0℃ ~ +35℃
Humidity		5% ~ 95%
Altitude		≤ 2000m
Cycle Life		≥ 6000 (25℃ ±2℃ , 90%DOD, 0.5C / 1C,70%EOL)
Certification		Wall-Mounted, 19inch Rack-mounted
Communication Port		CAN2.0, RS485
Warranty Period		5 years
Energy Throughput		16MWh@70%EOL
Certification		UN38.3, CE, IEC 62619

*Wall-Mounted, Rack-Mounted

RW-F5.3-2H3
RW-F5.3-1H3

Enhanced Reliability
Built-in Intelligent BMS, providing complete protection
Natural cooling, IP65, wide temperature
range : -10℃ to 55℃

All-in-One Design
Integrated 3.6kW hybrid inverter and 5.3kWh LFP battery, or 5kW hybrid inverter and 5.3kWh LFP battery, safety and long lifespan

Flexible Expansion
Max.16 units in parallel (57.6kW / 84.8kWh or 80kW / 84.8kWh)
Support expansion of Deye 5.3kWh LV battery, Max. capacity of 164.3kWh

Smart Application
Peak-shaving, smart load, AC couple etc.
Fast switching time of 4ms, ensuring your energy security

Easy Installation
Flat design, wall-mounted, saving installation space,
quick and easy installation

Intelligent Control
Comfortable and easy control via App, PC or Touch-Display

Residential ESS Solution

All-in-One ESS (LV)

Technical Data	RW-F5.3-2H3	RW-F5.3-1H3
AC Technical Specification		
Rated AC Input / Output Active Power (W)	3600 / 3600	5000 / 5000
Max AC Input / Output Apparent Power (VA)	3960	5500
Peak Power (off grid)	2 time of rated power, 10s	
AC Output Rated Current (A)	16.4 / 15.7	22.8 / 21.8
Max. AC Current (A)	18 / 17.3	25 / 24
Max Continuous AC Passthrough (grid to load) (A)	35	
Rated Input / Output Voltage/Range (V)	220V / 230, 0.85Un-1.1Un	
Rated Input / Output Grid Frequency/Range (Hz)	50Hz / 45Hz - 55Hz, 60Hz / 55Hz - 65Hz	
Grid Connection Form	L + N + PE	
Power Factor	0.8 leading to 0.8 lagging	
Total Harmonic Distortion (THDi)	<3% (of nominal power)	
DC injection current (mA)	<0.5% In	
DC Technical Specification		
Max. PV Access Power (W)	7200	10000
Max. PV Input Power (W)	5760	8000
Max. PV Input Voltage (Vdc)	500	
Start Up PV Voltage (Vdc)	125	
MPPT Voltage Range (Vdc)	150 ~ 425	
Full Load MPPT Voltage Range (Vdc)	300 ~ 425	
Rated PV Input Voltage (Vdc)	370	
Max. Operating PV Input Current (A)	18 + 18	
Max. PV Input Short-circuit Current (A)	27 + 27	
Number of MPP Trackers	2	
No. of Strings Per MPP Tracker	1 + 1	
Battery Chemistry	$LiFePO_4$	
Battery Nominal Voltage (V)	51.2	
Battery Energy Configuration (kWh)	5.32	
Max. Charging/Discharging Current (A)	75	100
Battery Operating Voltage (V)	44.8 ~ 57.6	
Battery Cycle Life	≥ 6000 (@25℃ ±2℃ , 0.5C / 0.5C, 70%EOL)	
Other Technical Specification		
Dimension (W × D × H, mm)	616 × 191 × 690 (Excluding connectors and brackets)	
Weight Appr. (kg)	71	
IP Rating of Enclosure	IP65	
Operating Temperature Range (℃)	-10℃ ~ 55℃	
Permissible Ambient Humidity	0 ~ 100%	
Inverter Topology	Non-Isolated	
Max. Efficiency	97%	
Max. charging / discharging Efficiency	95.5%	
MPPT Efficiency	>99%	
Safety EMC / Standard	IEC / EN 61000-6-1 / 2 / 3 / 4 , IEC / EN 62109-1, IEC / EN 62109-2	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Certification	UN38.3, IEC 62619	
Warranty	5 / 10 years (the Warranty Period Depends the Final Installation Site. More Info Please Refer to Warranty Policy)	

*Wall-Mounted, Floor-Mounted

RW-M6.1-B (EU、AU)

Safer

LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support high discharge power and natural cooling
Use high-quality environmental protection materials

Enhanced Reliability

≥ 6000 Cycles, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~55℃
IP65-rated for indoor and outdoor use

Exceptional Performance

Support Max. 0.8C / 0.8C continuous charging and discharging
Peak discharge current of 150A 2mins
A single machine supports a max of 5kW hybrid inverter

More Flexible

Modular design, easy to expand
Support Max. 32 units in parallel
The max power of the system can reach 196kWh
Suitable for residential and commercial use

Smarter

Battery module auto networking (No DIP switch code)
Support remotely monitoring and upgrade
Support USB drive upgrade the firmware

Residential ESS Solution

Wall-Mounted Battery (LV)

Technical Data		RW-M6.1-B (EU、AU)
Main Parameter		
Battery Type		$LiFePO_4$
Capacity (Ah)		120
Scalability		Max.32 pcs in Parallel (196kWh)
Nominal Voltage (V)		51.2
Operating Voltage (V)		43.2 ~ 57.6
Rated Energy (kWh)		6.14
Usable Energy (kWh)		5.53
Rated DC Power (kw)		6.14
Charge / Discharge Current (A)	Recommend	60
	Max	100
	Peak	150
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W × H × D,mm)		510 × 740 × 145 (Without Base, depth of 161mm with Hanging Board)
Weight Approximate (kg)		60
Master LED Indicator		5LED (SOC : 20% ~ SOC100%),3LED (working, alarming, protecting)
IP Rating of Enclosure		IP65
Operating Temperature (℃)		Charge : 0 ~ 55℃ / Discharge : -20℃ ~ 55℃
Storage Temperature (℃)		0℃ ~ 35℃
Humidity		5% ~ 95%
Altitude		≤ 2000m
Cycle Life		≥ 6000 (25℃ ±2℃ ,0.5C / 0.5C,70%EOL)
Installation Location		Wall-Mounted, Floor-Mounted
Communication Port		CAN2.0, RS485
Warranty Period		10 years
Energy Throughput		20MWh@70%EOL
Certification		UN38.3, IEC 62619, CE, CEI 0-21, VDE 2510-50

*Wall-Mounted, Floor-Mounted

RW-F10.6 (AF)

Safer

LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support natural cooling
Use high-quality environmental protection materials

Enhanced Reliability

≥ 6000 Cycles, 90%DOD, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range: -20℃ ~ 55℃
IP20-rated for dust protection

Exceptional Performance

Support Max. 1C / 1.2C continuous charging and discharging
Peak discharge current of 300A 2mins

More Flexible

Support Max. 32 units in parallel
The max power of the system can reach 340kWh
Suitable for residential and commercial use

Smarter

Battery module auto networking (No DIP switch code)
Support remotely monitoring and upgrade
Support USB drive upgrade the firmware

Residential ESS Solution

Wall-Mounted Battery (LV)

Technical Data		RW-F10.6 (AF)
Main Parameter		
Battery Type		$LiFePO_4$
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
Rated Energy (kWh)		10.64
Usable Energy (kWh)		9.58
Charge/Discharge Current (A)	Recommend	Charge : 104 / Discharge : 104
	Max	Charge : 200 / Discharge : 240
	Peak	300 (2mins)
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 : 1 ~ 53℃ / Discharge : -20℃ ~ 53℃ Recommend : 15℃ ~ 35℃
Storage Temperature (℃)		0℃ ~ 35℃
Humidity		5% ~ 95%
Altitude		≤ 3000m
Cycle Life		≥ 6000 (25℃ ±2℃ ,0.5C / 1C,90%DOD,70%EOL)
Installation Location		Wall-Mounted, Floor-Mounted
Communication Port		CAN2.0, RS485
Certification		UN38.3, MSDS,CE,CB
Warranty Period		5 / 10 years

*Wall-Mounted, Floor-Mounted

RW-F10.2 (EU、AU)
RW-F10.2-B (NA)

Safer
LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support natural cooling
Use high-quality environmental protection materials

Enhanced Reliability
≥ 6000 Cycles, 90%DOD, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP65-rated for indoor and outdoor use

Exceptional Performance
RW-F10.2 supports up to 1C / 1.2C charging and discharging
RW-F10.2-B supports up to 1C / 1.25C charging and discharging
Peak discharge current of 300A 2mins

More Flexible
Modular design, easy to expand
Support Max. 32 units in parallel
RW-F10.2 has a maximum capacity of 326kWh
RW-F10.2-B has a maximum capacity of 327kWh
Suitable for residential and commercial use

Smarter
Battery module auto networking (No DIP switch code)
Support Deye remotely monitoring and upgrade
Supports Deye inverters to form a stack all-in-one system

Residential ESS Solution

Wall-Mounted Battery (LV)

Technical Data		RW-F10.2 (EU、AU)	RW-F10.2-B (NA)
Main Parameter			
Battery Type		$LiFePO_4$	
Built-In Circuit Breaker		125A 4P, 60Vdc	
Capacity (Ah)		200	
Scalability		Max. 32 pcs pack (Max.326kWh) in parallel	Max. 32 pcs pack (Max.327kWh) in parallel
Nominal Voltage (V)		51.2	
Operating Voltage (V)		43.2 ~ 57.6	
Rated Energy (kWh)		10.2	10.24
Usable Energy (kWh)		9.2 (90%DOD)	9.2
Rated DC Power (kw)		6	/
Max DC Power (kw)		12	/
Charge/Discharge Current (A)	Recommend	Charge: 100 / Discharge : 100	
	Max	Charge: 198 / Discharge : 240	
	Peak	Discharge : 300 (2mins,25℃)	
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)		104	235.9 lbs. (107kg)
Master LED Indicator		SOC state (20% ~ 100%), work state (alarming, protecting)	LED (SOC:20% ~ SOC100% and working state)
IP Rating of Enclosure		IP65	NEMA 3R (IP65)
Operating Temperature (℃)		Charge : 1 ~ 55℃ Discharge : -20℃ ~ 55℃	Charge : 33 ℉ ~ 131 ℉ (1 ~ 55℃) Discharge : -4 ℉ ~ 131 ℉ (-20℃ ~ 55℃) Recommend : 59 ℉ ~ 95 ℉ (15℃ ~ 35℃)
Storage Temperature (℃)		32 ℉ ~ 95 ℉ (0 ~ 35℃)	
Humidity		5% ~ 95%	
Altitude		≤ 3000m	≤ Max. 9,843 ft (3,000m)
Cycle Life		≥ 6000 (25℃ ±2℃ ,0.5C / 0.5C,90%DOD,70%EOL)	
Installation Location		Wall-Mounted, Floor-Mounted	
Communication Port		CAN2.0, RS485	
Warranty Period		10 years	
Energy Throughput		32MWh (25℃ , 0.5C / 0.5C, 70%EOL)	
Certification		UN38.3, IEC 62619, CE, CEI 0-21, VDE 2510-50, CEC	UN38.3, FCC, UL 1973, UL 9540A

*Wall-Mounted, Floor-Mounted

AI-W5.1-B (EU、AU)

Safer

LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Support high discharge power and natural cooling
Use high-quality environmental protection materials

Enhanced Reliability

≥ 6000 Cycles, 90%DOD, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP65-rated for indoor and outdoor use

Exceptional Performance

Support Max. 1C / 1.2C continuous charging and discharging
Peak discharge current of 360A 10s (6 units)

More Flexible

Modular design, easy to expand
Up to 6 clusters (36 packs) can be supported in parallel
The max power of the system can reach 184kWh
Suitable for residential and commercial use

Smarter

Battery module auto networking (No DIP switch code)
Support remotely monitoring and upgrade the firmware

Residential ESS Solution

Stacked Battery (LV)

Technical Data		AI-W5.1-B (EU、AU)					
Main Parameter							
Battery Type		$LiFePO_4$					
Battery Module Energy (kWh)		5.12					
Battery Module Nominal Voltage (V)		51.2					
Battery Module Capacity (Ah)		100					
Scalability		1	2	3	4	5	6
System Nominal Voltage (V)		51.2					
System Operating Voltage (V)		43.2 ~ 57.6					
System Energy (kWh)		5.12	10.24	15.36	20.48	25.6	30.72
System Usable Energy (kWh)		4.6	9.2	13.8	18.4	23	27.6
Charge/Discharge Current (A)	Recommend	50	100	150	200	250	250
	Max	100	180	250	250	250	250
	Peak	150	270	360	360	360	360
Other Parameter							
Working Temperature (℃)		Charge : 0 ~ 55℃ / Discharge : -20℃ ~ 55℃					
Storage Temperature (℃)		0℃ ~ 35℃					
Communication Port		CAN2.0, RS485					
Humidity		5% ~ 95%					
Altitude		≤ 2000m					
IP Rating of Enclosure		IP65 (after stacking)					
System Dimension (W × H × D,mm)		720 × 255 × 300 (without terminal parts)					
System Weight Approximate (kg)		53					
Module Dimension (W × H × D,mm)		720 × 255 × 569	720 × 255 × 850	720 × 255 × 1131	720 × 255 × 1412	720 × 255 × 1693	720 × 255 × 1974
Module Weight Approximate (kg)		74.5	127.5	180.5	233.5	286.5	339.5
Master LED Indicator		Battery module : 3LED (working, alarming, protecting), PDU module : 5LED (SOC : 20% ~ 100%) & 3LED (working, alarming, protecting)					
Installation Location		Wall-Mounted, Floor-Mounted					
Recommend Depth of Discharge		90%					
Cycle Life		≥ 6000 (25℃ ±2℃ ,0.5C / 0.5C,90%DOD,70%EOL)					
Warranty Period		10 years					
Energy Throughput		16MWh (Battery Module @70%EOL)					
Certification		UN38.3, IEC 62619, CE, UK, VDE 2510-50, CEI 0-21,CE-LVD, CEC					

*Wall-Mounted, Floor-Mounted

AI-W5.1-B-ESS

* Floor-Mounted

AI-W5.1-B-ESS

Exceptional Performance

Integrated Single Phase / Three Phase hybrid inverter and battery
Max. charging / discharging current of 90A ~ 240A

Enhanced Reliability

≥ 6000 Cycles, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP65-rated for indoor and outdoor use

Smarter

Support peak-shaving
Support smart load
Support AC coupling
Support 4ms fast switching
Comfortable and easy control via App, PC or Touch-Display

More Flexible

Modular lithium iron phosphate battery, capacity of 5kWh ~ 30kWh
No additional wires and screws required, quick and easy intallation

Residential ESS Solution

All-in-One ESS (LV)

Technical Data	AI-W5.1-B-ESS
Battery Technical Specification	
Main Parameter	
Battery Type	$LiFePO_4$
Battery Module Energy (kWh)	5.12
Battery Module Nominal Voltage (V)	51.2
Scalability	Max.36 pcs in parallel (Max. capacity of 184kWh)
Other Parameter	
Operating Temperature (℃)	Charge : 0 ~ 55℃ / Discharge : -20℃ ~ +55℃
IP Rating of Enclosure	IP65 (after stacking)
Battery Operating Voltage (V)	43.2 ~ 57.6
Module Dimension (W × H × D,mm)	720 × 255 × 300
Module Weight Approximate (kg)	53
Battery Base Dimension (W × H × D,mm)	720 × 255 × 68
Battery PDU3 Dimension(W × H × D,mm)	720 × 255 × 228
Cycle Life	≥ 6000 (25℃ ±2℃ ,0.5C / 0.5C, 90%DOD,70%EOL)
Warranty Period	Battery 10 years (Inverter 5 years)
Battery Module Certification	IEC 62619, CE, UK, VDE 2510-50, CEI 0-21, UN38.3, CE-LVD, CEC
System Certification	IEC 62619, IEC 60730,CE, VDE 2510-50, CEI 0-21

Inverter Technical Specification

Inverter Model	AI-W5.1-3.6P1-B	AI-W5.1-5P1-B	AI-W5.1-6P1-B	AI-W5.1-7.6P1-B	AI-W5.1-8P1-B	AI-W5.1-5P3-B	AI-W5.1-6P3-B	AI-W5.1-8P3-B	AI-W5.1-10P3-B	AI-W5.1-12P3-B
PV String Input Data										
Max. PV Input Power (W)	4680	6500	7800	9880	10400	6500	7800	10400	13000	15600
Max. PV Input Current (A)	13+13			26+26		13+13			26+13	
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	
Start Up DC Voltage (Vdc)	125					160				
Full Load DC Voltage Range (V)	300 ~ 425			200 ~ 425		350 ~ 650				
MPPT Voltage Range (Vdc)	150 ~ 425					200 ~ 650				
Number of MPP Trackers	2									
AC Output Data										
Rated AC Output and UPS Power (W)	3600 / 3600	5000 / 5000	6000 / 6000	7600 / 7600	8000 / 8000	5000 / 5000	6000 / 6000	8000 / 8000	10000 / 10000	12000 / 12000
Max. Charging / Discharging Current (A)	90	120	135	190	190	120	150	190	210	240
Recommended Energy Configuration	5kWh (Min.)			10kWh (Min.)		5kWh (Min.)		10kWh (Min.)		15kWh (Min.)
Peak Power (off grid)	2 time of rated power, 10s									
Power Factor	0.8 leading to 0.8 lagging									
Output Frequency and Voltage	50 / 60Hz ; L / N / PE 220 / 230Vac					50 / 60Hz ; 3L / N / PE 220 / 380, 230 / 400Vac				
Grid Type	Single Phase					Three Phase				
DC Injection Current (mA)	THD<3% (Linear load<1.5%)									
Efficiency										
Max. Efficiency	97.60%									
Max. Charging / Discharging Efficiency	95.50%									
Protection										
Grid Regulation	VDE 4105,IEC 61727 / 62116,VDE 0126,AS 4777.2,CEI 0-21,EN 50549-1,G98,G99,C10-11,UNE 217002,NBR 16149 / NBR 16150									
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									
General Data										
Dimension (W × H × D,mm)	720 × 255 × 330					720 x 255 x 440				
Approximate Weight (kg)	34					38				
Relative Humidity	15% ~ 85% (No Condensing)									
Display	LCD									
Communication With BMS	CAN2.0									

2 Summer Series

Residential ESS Solution

Small-Scale C&I ESS Solution

GB-L (EU) & GB-L PRO (EU)

*Floor-Mounted

GB-L (EU) & GB-L PRO (EU)

Safer

LFP Battery : safety, long lifespan and high-energy density
Built-in explosion relief device to dredge gas
Built-in fire protection device to cut off the fire source for 3 seconds
Use high-quality environmental protection materials

Enhanced Reliability

≥ 6000 Cycles, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 60℃
IP65-rated for indoor and outdoor use
Anti-corrosion grade ≥ C2

More Flexible

Modules are connected in series without cable connection, and high-voltage platform improves system efficiency
Battery Module : 2 ~ 6 pcs in series (optional)

Smarter

Temperature detection of key parts, cell, power plug-in, etc
Optional heating function for low-temperature applications
Support remote upgrade, real-time battery warning information push, LCD data display

Residential ESS Solution

Stacked Battery (HV)

Technical Data		GB-L (EU)				
Main Parameter						
Battery Type		$LiFePO_4$				
Battery Module Energy (kWh)		4.09				
Battery Module Nominal Voltage (V)		102.4				
Battery Module Capacity (Ah)		40				
Battery System Model		GB-L8	GB-L12	GB-L16	GB-L20	GB-L24
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	24.54
System Usable Energy (kWh)		7.36	11.04	14.72	18.4	22.08
Charge/Discharge Current(A)	Recommend	20				
	Max	40				
	Peak	50				
Other Parameter						
Operating Temperature (℃)		Charge : 0 ~ 55 / Discharge : -20 ~ 60				
Storage Temperature (℃)		0 ~ 35				
Communication Port		CAN2.0, RS485				
Humidity		5% ~ 90%				
Altitude		≤ 2000m				
IP Rating of Enclosure		IP65				
System Dimension (W × H × D,mm)		540 × 385 × 650	540 × 385 × 870	540 × 385 × 1090	540 × 385 × 1310	540 × 385 × 1530
System Weight Approximate (kg)		97	136	175	214	253
LCD Display		SOC%, Power, Total Voltage				
Installation Location		Floor Mount				
Recommend Depth of Discharge		0.9				
Cycle Life		25±2° C,0.5C / 0.5C, EOL70% ≥ 6000				
Warranty Period		10 years				
Certification		CE / IEC 62619 / VDE 2510-50 / UN38.3				

Residential ESS Solution

Stacked Battery (HV)

Technical Data		GB-L PRO (EU)				
Main Parameter						
Cell Chemistry		$LiFePO_4$				
Module model		GB-L-PACK 4.0				
Module Energy (kWh)		4				
Module Nominal Voltage (V)		102.4				
Module Capacity (Ah)		40				
Battery system model		GB-L8 PRO	GB-L12 PRO	GB-L16 PRO	GB-L20 PRO	GB-L24 PRO
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	12	16	20	24
System Usable Energy (kWh)		7.2	10.8	14.4	18	28.6
Charge / Discharge Current (A)	Recommend	20				
	Max	40				
	Peak	50				
Other Parameter						
Working Temperature (℃)		Charge : -20 ~ 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 (℃)		0 ~ 35				
Dimension (W × D × H, 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 Mount				
Recommend Depth of Discharge		0.9				
Cycle Life		25±2℃ , 0.5C / 0.5C, EOL70% ≥ 6000				
Warranty		10 years				
Certification		CE / IEC 62619 / VDE 2510-50 / UN38.3				

GB-SL (EU)

*Floor-Mounted

GB-SL (EU)

Exceptional Performance

All-in-One design
Beautiful appearance and scene integration
100% unbalanced output, each phase
Max. output up to 60% rated power

Enhanced Reliability

≥ 6000 Cycles, 70%EOL
Wide temperature range : -20℃ ~ 60℃
IP65-rated for indoor and outdoor use
Support storing energy from diesel generator

Smarter

Temperature detection of key parts, cell, power plug-in, etc
Optional heating function for low-temperature applications

More Flexible

Max. 10 pcs parallel for on-grid and off-grid operation
Modules are connected in series without cable connection, and high-voltage platform improves system efficiency

Residential ESS Solution

All-in-One ESS (HV)

Technical Data		GB-SL (EU)				
Battery Technical Specification						
Main Parameter						
Battery Type		$LiFePO_4$				
Battery Module Energy (kWh)		4.09				
Battery Module Nominal Voltage (V)		102.4				
Battery Module Capacity (Ah)		40				
Battery Module Qty In Series (Optional)		2	3	4	5	6
Scalability		204.8	307.2	409.6	512	614.4
System Operating Voltage (V)		179.2 ~ 691.2				
System Energy (kWh)		8.18	12.27	16.36	20.45	24.54
System Usable Energy (kWh)		7.36	11.04	14.72	18.4	22.08
Charge/Discharge Current (A)	Recommend	20				
	Max	40				
	Peak	50@2min				
Other Paramter						
Operating Temperature (℃)		Charge： 0 ~55 / Discharge：-20 ~ 60				
Storage Temperature (℃)		0 ~ 35				
Thermal Management		Natural Cooling				
Communication Port		CAN2.0 / RS485				
Humidity		5 ~ 85%RH				
Altitude		≤ 2000				
IP Rating of Enclosure		IP65				
Noise (dB)		<55				
Module Dimension(W × H × D,mm)		540 × 385 × 1100	540 × 385 × 1320	540 × 385 × 1540	540 × 385 × 1760	540 ×385 × 1980
Module Weight Approximate (kg)		137	176	215	254	293
Installation Location		Floor Mount				
Recommend Depth of Discharge		90%				
Cycle Life		25±2℃， 0.5C / 0.5C,70%EOL ≥ 6000				
Warranty Period		10 years				
Certification		CE / IEC 62619 / VDE 2510-50 / UN38.3				

Inverter Technical Specification

Inverter Model (EU)	GB-S5K	GB-S6K	GB-S8K	GB-S10K	GB-S12K	GB-S15K	GB-S20K
Battery Input Data							
Battery Type	LI-ION						
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							
Start Up DC Voltage (Vdc)	150						
Max. DC Input Power (W)	6500	7800	10400	1300	15600	19500	26000
Max. DC Input Voltage (V)	1000						
MPPT Range (V)	150-850						
Full Load DC Voltage Range (V)	195 ~ 850	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 ISC (A)	30+30				39+30		39+39
Number of MPP Trackers	2						
Number 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-gird) Current (A)	8.4/8	10/9.6	13.4/12.8	15.2/14.5	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 Pass Through (A)	40				80		
Peak Power (off grid)	1.5 time of rated power, 10 S						
Generator Input / Smart Load / AC	7.6 / 40	9.1 / 40	12.2 / 40	15.2 / 40	15.2 / 40	15.2 / 40	30.4 / 80
Couple Current (A)	/ 7.6	/ 9.1	/ 12.2	/ 15.2	/ 15.2	/ 15.2	/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	<0.5%ln						
DC Injection Current (mA)	<0.5%ln						
Efficiency							
Max. Efficiency	97.60%						
Euro Efficiency	97%						
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	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98						
Grid Regulation	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							
Operating Temperature Range (℃)	-40 ~ 60℃ , >45℃ derating						
Cooling	Free cooling	Smart cooling					
Communication With BMS	RS485 ; CAN						
Warranty Period	5 years						

BOS-A (EU、AF)

Safer
LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Protection functions against over-discharge, over-charge, over-current, over-high or low temperature

Smarter
Support cloud-based monitoring and upgrade
Keep track of the operating status
Support USB, Bluetooth connection
Uploading of battery data via TCP protocol

Enhanced Reliability
≥ 6000 Cycles, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP20-rated for dust protection

More Flexible
Multiple battery modules can be in parallel
Support 7 ~ 21 packs in series
Inverter 50 ~ 80kW, Battery 38 ~ 160kWh

Exceptional Performance
Automatically manage charge / discharge and balance cell current voltage
Less self-discharge, up to 6 months without charging on shelf
No memory effect, performs well with shallow charges and discharges

Small-Scale C&I ESS Solution

Rack-Mounted Battery (HV)

Technical Data		BOS-A (EU、AF)		
Main Parameter				
Battery Type		$LiFePO_4$		
Battery Module Energy (kWh)		7.68		
Battery Module Nominal Voltage (V)		38.4		
Battery Module Capacity (Ah)		200		
Battery Module Qty In Series (Optional)		7	13	21
System Nominal Voltage (V)		268.8	499.2	806.4
System Operating Voltage (V)		235.2 ~ 306.6	436.8 ~ 569.4	705.6 ~ 919.8
System Energy (kWh)		53.76	99.84	161.28
System Usable Energy (kWh)		48.38	89.85	145.15
Charge / Discharge Current (A)	Recommend	100		
	Max	160		
Other Parameter				
Operating Temperature (℃)		Charge : 0 ~ 55 / Discharge : -20 ~ 55		
Storage Temperature (℃)		0 ~ 35		
Status Indicator		Yellow : Battery High Voltage Power On Red: Battery System Alarm		
Communication Port		CAN2.0		
Humidity		5% ~ 85%RH		
Altitude		≤ 3000m		
IP Rating of Enclosure		IP20		
System Dimension (W × H × D,mm)		1900 x 610 x 610	2350 x 610 x 610	1900 x 610 x 610
System Weight Approximate (kg)		558	985	1586
Module Dimension (W × H × D,mm)		601.5 x 520 x 135		
Module Weight Approximate (kg)		70		
Installation Location		Rack Mounting		
Recommend Depth of Discharge		90%		
Cycle Life		25±2℃ ,0.5C / 0.5C, EOL70% ≥ 6000		
Warranty Period		10 years		
Certification		CE / IEC 62619 / IEC 62040 / UN38.3 / VDE-2510		

*Rack-Mounted

BOS-B

Reliable
Operating temp : -20℃ to 55℃
Operate up to 3000m altitude
1.1x overload capacity
Balancing solutions extend battery life
Triple auxiliary power design for stable supply

Easy Maintenance
5U Standard Chassis
User Interface & Bluetooth App
USB & Cloud Upgrades
TCP Protocol for EMS
Fault Signal Input Support

Scalable
Support up to 3 units off-grid backup, maximum 300kW
Support up to 20 units on-grid in parallel, maximum 2MW/4.3MWh
Support up to 10 units off-grid in parallel, maximum 1MW/2.15MWh

Intelligent Control
Thermal management keeps battery < 35° C
Peak-valleymgmt, anti-backflow, overload protection
Load tracking, demand control, backup power, phase separation

Safer
LFP batteries
Support aerosol fire extinguishing

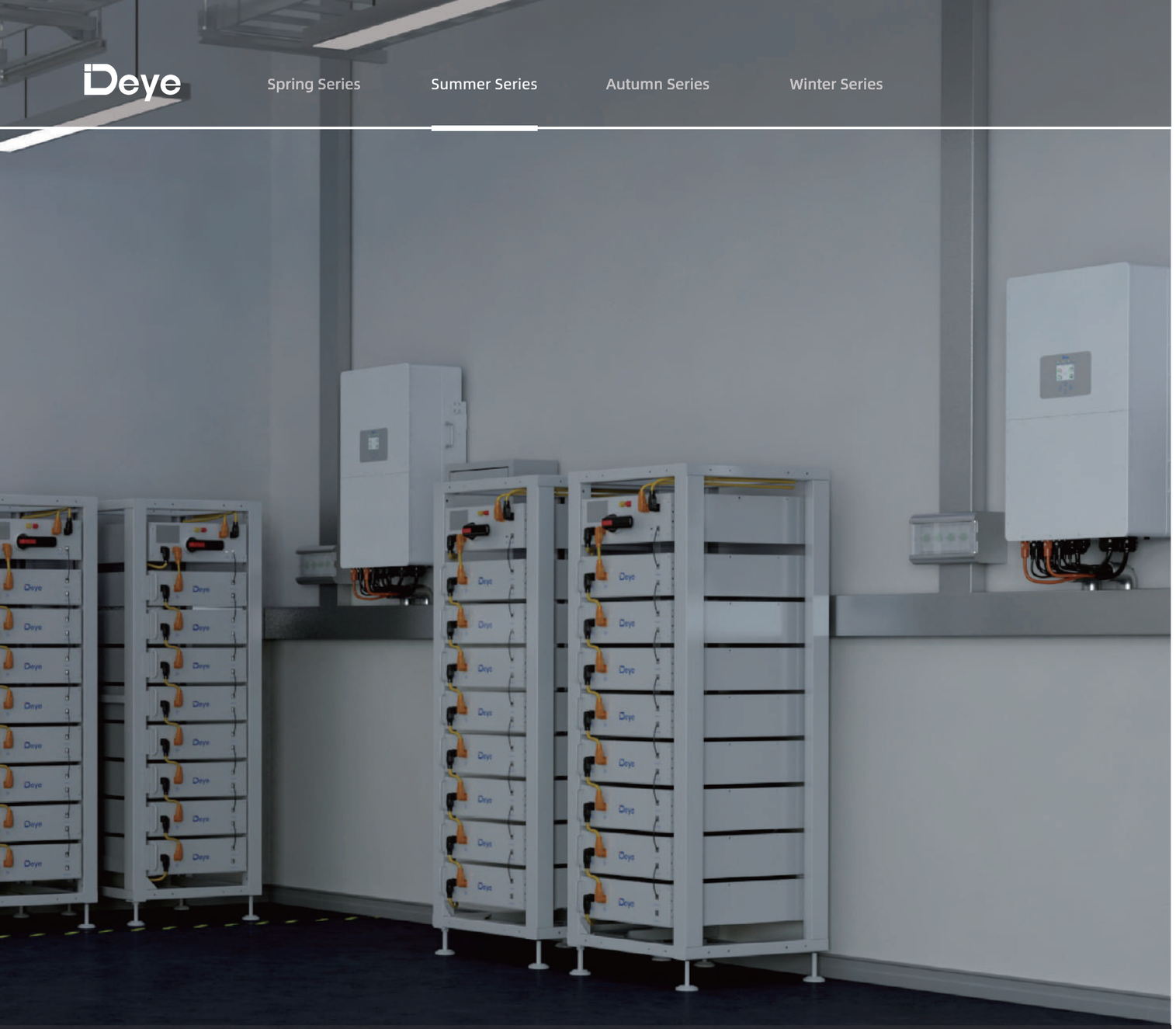
Multi-Fusion
Integrated EMS, PCS, and BMS
Support expansion of MPPT module
Support off-grid backup

Indoor C&I ESS Solution

Rack-Mounted Battery (HV)

Technical Data		BOS-B
Main Parameter		
Battery Module Energy (kWh)		14.3
Battery Module Nominal Voltage (V)		51.2
Battery Module Capacity (Ah)		280
Module Weight Approximate (kg)		122
Battery Module QtyIn Series (Optional)		15
Scalability		5 ~ 15
System Nominal Voltage (V)		720
System Energy (kWh)		214.5
System Usable Energy (kWh)		193.05
Charge / Discharge Current (A)	Recommend	140
	Max	160
Other Parameter		
Operating Temperature (℃)		discharge : -20 ~ 55 charge : 0 ~ 55
Storage Temperature (℃)		0 ~ 35
Thermal Management		Smart fan cooling
LCD Display		SOC / Fault Code
Status Indicator		Yellow : Battery High Voltage Power On Red : Battery System Alarm
Communication Port		TCP / RS485 / CAN
Communication With BMS		CAN
Humidity		5% ~ 85%
Altitude		<3000m
IP Rating of Enclosure		IP20
Noise (dB)		TBD
System Dimension (W x H x D, mm)		2150 x 1136 x 800
System Weight Approximate (kg)		1850
Instalation Location		Rack Mounted
Recommend Depth of Discharge		90%
Cycle Life		25±2℃ ,0.5C / 0.5C,EOL70% ≥ 6000
Warranty Period		10 years
Certification		CE / IEC 62619 / IEC 62040 / UN38.3

*Rack-Mounted



BOS-G (Global)

Safer
LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Protection functions include over-discharge, over-charge, over-current, over-high or low temperature

Exceptional Performance
Automatically manage charge / discharge and balance current / voltage
Less self-discharge, up to 6 months without charging on shelf
No memory effect, performs well with shallow charges and discharges
Peak discharge current of 125A 2mins

Enhanced Reliability
≥ 6000 Cycles, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP20-rated for dust protection

More Flexible
Multiple battery modules can be in parallel
Support 3 ~ 12 packs in series

Smarter
Support remotely monitoring and upgrade
Support USB and Wi-Fi (optional) upgrade

Small-Scale C&I ESS Solution

Rack-Mounted Battery (HV)

Technical Data	BOS-G (Global)									
Main Parameter										
Battery Type	$LiFePO_4$									
Battery Module Energy (kWh)	5.12									
Battery Module Nominal Voltage (V)	51.2									
Battery Module Capacity (Ah)	100									
Battery Module Number	BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9	10	11	12
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
System Operating Voltage (V)	124.8 ~ 175.2	166.4 ~ 233.6	208 ~ 292	249.6 ~ 350.4	291.2 ~ 408.8	332.8 ~ 467.2	374.4 ~ 525.6	416 ~ 584	457.6 ~ 642.4	499.2 ~ 700
System Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Usable Energy (kWh)	13.82	18.43	23.04	27.64	32.25	36.86	41.47	46.08	50.68	55.29
Rated DC Power	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
Charge/Discharge Current (A)	Recommend	50								
	Max	100								
	Peak	125								
Other Parameter										
Operating Temperature (℃)	Charge : 0 ~ 55 / Discharge : -20 ~ 55									
Storage Temperature (℃)	0 ~ 35									
Status Indicator	Yellow : Battery High Voltage Power On Red :									
Communication Port	CAN2.0 / RS485									
Humidity	5% ~ 85%RH									
Altitude	≤ 2000m									
IP Rating of Enclosure	IP20									
System Dimension(WH × D,mm)	530 × 602 × 1629	530 × 602 × 2219								
System Weight Approximate (kg)	420	610								
Installation Location	Rack Mounting									
Recommend Depth of Discharge	90%									
Cycle Life	25±2℃ ,0.5C / 0.5C, EOL70% ≥ 6000									
Warranty Period	10 years									
Certification	CE / IEC 62619 / VDE 2510-50 / UL 1973 / UL 9540A / UN38.3									

*Rack-Mounted

BOS-G PRO (EU、AF)

Safer

LFP Battery : safety, long lifespan and high-energy density
Built-in intelligent BMS, providing complete protection
Protection functions against over-discharge, over-charge, over-current, over-high or low temperature

Enhanced Reliability

≥ 6000 Cycles, 70%EOL
10 years warranty for long-term peace of mind
Wide temperature range : -20℃ ~ 55℃
IP20-rated for indoor environments

Exceptional Performance

Automatically manage charge / discharge and balance current / voltage
Less self-discharge, up to 6 months without charging on shelf
No memory effect, performs well with shallow charges and discharges
Peak discharge current of 125A 2mins

More Flexible

Multiple battery modules can be in parallel
Support 5 ~ 17 packs in series

Smarter

Support remotely monitoring and upgrade
Support USB and Wi-Fi (optional) upgrade

Small-Scale C&I ESS Solution

Rack-Mounted Battery (HV)

Technical Data		BOS-G PRO (EU、AF)			
Main Parameter					
Battery Type		$LiFePO_4$			
Battery Module Energy (kWh)		5.12			
Battery Module Nominal Voltage (V)		51.2			
Battery Module Capacity (Ah)		100			
Battery System Model		BOS-G25 PRO	BOS-G40 PRO	BOS-G60 PRO	BOS-G85 PRO
Battery Module Qty In Series (Optional)		5 (Min)	8	12	17 (Max)
System Nominal Voltage (V)		256	409.6	614.4	870.4
System Operating Voltage (V)		220 ~ 292	352 ~ 467.2	528 ~ 700.8	748 ~ 992.8
System Energy (kWh)		25.6	40.96	61.44	87.04
System Usable Energy (kWh)		23.04	36.86	55.3	78.33
Rated DC Power		25.6	40.96	55.3	87.04
Charge / Discharge Current (A)	Recommend	50			
	Max	100			
	Peak	125			
Other Parameter					
Operating Temperature (℃)		Charge : 0 ~ 55 / Discharge : -20 ~ 55			
Storage Temperature (℃)		0 ~ 35			
Status Indicator		Yellow : Battery High Voltage Power On Red : Battery System Alarm			
Communication Port		CAN2.0 / RS485			
Humidity		5% ~ 85%RH			
Altitude		≤ 3000m			
IP Rating of Enclosure		IP20			
System Dimension (W × H × D,mm)		530 × 602 × 1629		530 × 602 × 2219	1060 × 602 × 1629
System Weight Approximate (kg)		290	420	610	866
Installation Location		Rack Mounting			
Recommend Depth of Discharge		90%			
Cycle Life		25±2℃ ,0.5C / 0.5C, EOL70% ≥ 6000			
Warranty Period		10 years			
Certification		CE / IEC 62619 / VDE 2510-50 / UN38.3			

*Rack-Mounted

GE-F60

Multi-Fusion
EMS, hybrid inverter and BMS integrated technology
Support black start function and off-grid operation
Power supply redundancy design

Reliability
Maximum battery temperature ≤ 40℃ at rated power
IP55-rated for outdoor use
Wide temperature range: -20℃ ~ 55℃

Flexible
F60 can be euipped with 50kW inverters
Support expansion a maximum capacity of 3600kWh

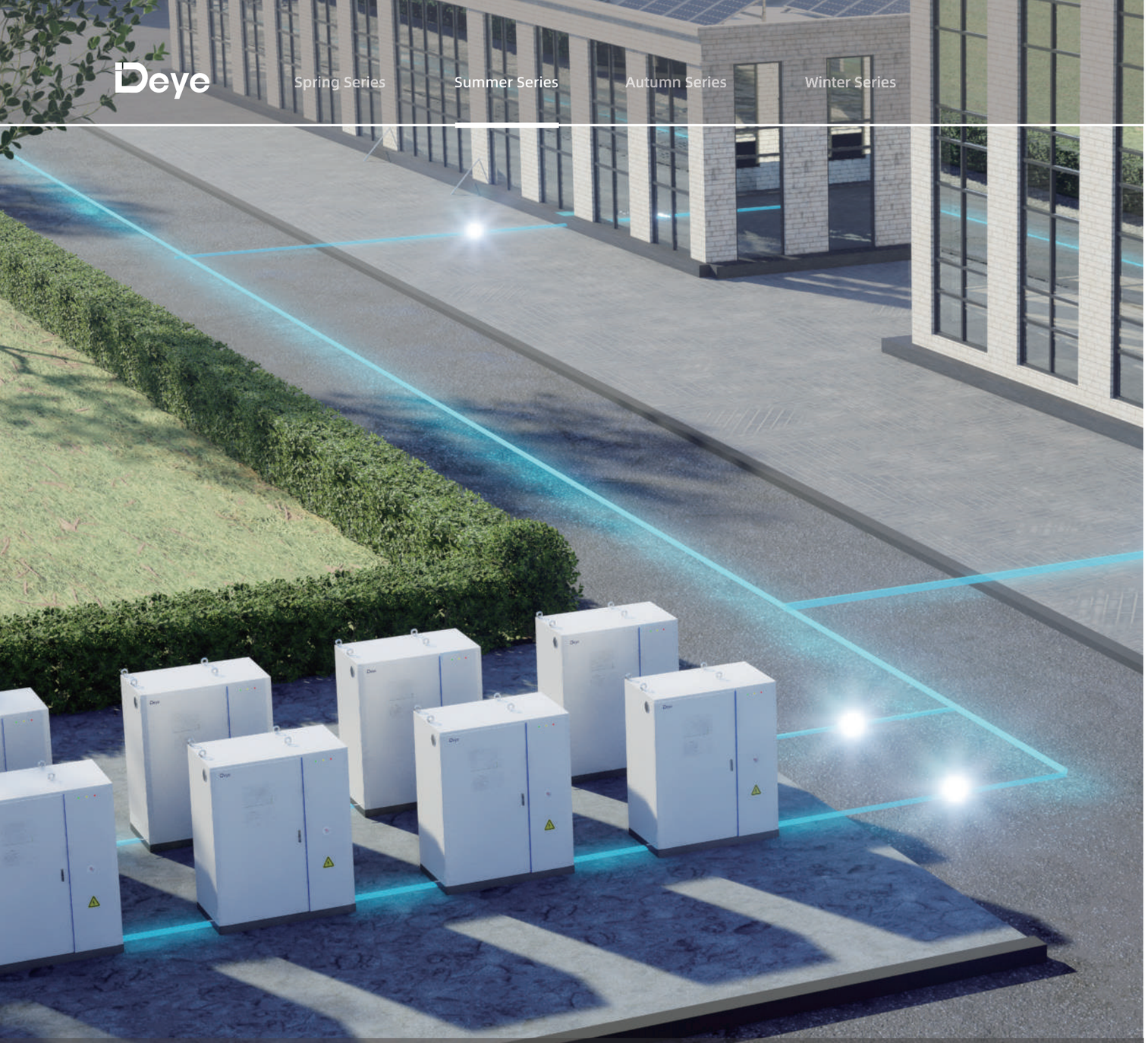
Protection
Combustible gas, smoke and temperature detection
System active exhaust and fire alarm
Battery pack and system use aerosol fire suppression

Small-Scale C&I ESS Solution

Small-Scale C&I Battery Cabinet

Technical Data		GE-F60
Main Parameter		
Cell Chemistry		$LiFePO_4$
Module Energy (kWh)		5.12
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		100
Battery Module QtyIn Series (Optional)		12
System Nominal Voltage (V)		614.4
System Operating Voltage (V)		480 ~ 700
System Energy (kWh)		61.44
System Usable Energy (kWh)		55.29
Rated DC Power		61.44
Charge/Discharge2Current (A)	Recommend	50
	Max	100
	Peak	125
Other Parameter		
Status Indicator		Yellow : BatteryHigh 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 x D x H,mm)		783 x 1059 x 2235
Weight Approximate (kg)		1070
Installation Method		Floor-Mounted
Storage Temperature (℃)		0 ~ 35
Operating Temperature (℃)		-30 ~ 45 (>45 derating)
Recommend Depth of Discharge		90%
Cycle Life		25±2℃ ,0.5C / 0.5C,EOL70%>6000
Warranty		10 years
Certification		UN38.3 / CB / CE / CEC / IEC 62040

*Floor-Mounted



GE-F120-2H2

Multi-Fusion
All-in-One design
EMS, hybrid inverter and BMS integrated technology
Support black start function and off-grid operation
Power supply redundancy design

Flexible
F120 supports the integration of 30/40/50kW inverters
Support expansion a maximum capacity of 3600kWh

Reliability
Maximum battery temperature ≤ 35℃ at rated power
IP55-rated for outdoor use
Wide temperature range: -20℃ ~ 55℃

Protection
Combustible gas, smoke and temperature detection
System active exhaust and fire alarm
Battery pack and system use aerosol fire suppression

Small-Scale C&I ESS Solution

Small-Scale C&I ESS

Technical Data	GE-F120-2H2
System Specification	
Nominal Output Power / UPS Power (W)	50000
AC Output Frequency and Voltage	50 / 60Hz ; 220 / 380,230 / 400Vac
Grid Type	3L / N / PE
Number of Parallel (Off-grid)	10
Energy Configuration (kWh)	122.8
Dimension (W x D x H,mm)	1780 x 1056 x 2235
Weight Appr. (kg)	2090
AC Output Rated Current (A)	75.8
Battery Operating Voltage (V)	500 ~ 700
MaX.RTE	89%
Battery Chemistry	LiFePO
IP Rating of Enclosure	IP55
Installation Method	Floor-Mounted
Storage Temperature (℃)	0 ~ 35
Operating Temperature (℃)	-20 ~ 45 (>45 derating)
Warranty	10 years
Inverter Technical Specification	
Max. PVInput Power (W)	65000
Max. PVInput 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%
DCInjection current (mA)	<0.5%In
Display	LCD
OperatingTemperature Range (℃)	-40 ~ 60 (>45 derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	527 x 294 x 894
Inverter Communication	CAN,RS485,WIFI,ETH
Grid Regulation	VDE 4105,IEC 61727 / 62116,VDE 0126,AS 4777.2,CE 10-21,EN 50549-1, G98,G99,C10-11,UNE 217002,NBR 16149 / NBR 16150
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 x D x H mm)	440 x 570 x 133
Battery Module Weight (kg)	44
OperatingTemperature Range (℃)	Charge : 0 ~ 55 / Discharge : -20 ~ 55
Cycle Life	>6000 (@25℃ ± 2℃ ,0.5C / 0.5C,70%EOL)
Battery Module Certification	UN38.3.IEC 62619.IEC 61000

*Floor-Mounted

Autumn Series

5

Balcony ESS Solution

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

Convenient Charge
Portable Power with
USB-A and Type C

High Protection
IP 65
Water & Dust Protection

Extreme Weather Adaptability
Wide Operating
Temperature -10° C~50° C

Long Lifespan
10-year Warranty
6000 Cycles to 70% Capacity

Smart Connection
Bluetooth, Wi-Fi and
Mobile APP

Flexible Operation
Support On-grid and
Off-grid Operation

Balcony ESS Solution

Balcony ESS

Technical Data	AE-FS2.0-2H2	AE-F2.0
AC Technical Specification		
Nominal Input / Output Power / UPS Power	1000 / 1000W	/
AC Input / Output Frequency and Voltage	50Hz (45Hz ~ 55Hz),60Hz (55Hz ~ 65Hz), L / N (PE),220 / 230 Vac	/
Grid Type	Single phase	/
Rated Grid Input / Output Current	4.3A	/
Max.Grid Input / Output Current	4.6A	/
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	THD<3% (Linear load<1.5%) mA	/
DC Technical Specification		
Max.PV Input Power	2200W	/
Max.PV Input Current	15A	/
Max.PV Short-circuit Current	18A	/
Rated PVInput Voltage	35 (20 ~ 60) Vdc	/
Start Up DC Voltage	25Vdc	/
MPPT Voltage Range	20 ~ 60Vdc	/
Number of MPPT	2	/
Battery Chemistry	$LiFePO_4$	
Battery Nominal Voltage	51.2V	
Battery Nominal Energy	2000Wh	
Battery Operating Voltage	44.8V ~ 57.6V	
Battery Cycle Life	≥ 6000 (@25℃ ±2℃ ,0.5C / 0.5C,70%EOL)	
Parallel Capability	/	5 pcs
Other Technical Specification		
Display	Colorful Touch LCD &APP&Battery LED (SOC,Alarm)	LED (SOC,Alarm)
Communication interfaces	Wi-Fi,Bluetooth	CAN2.0,LoRa
Dimension (W × D × H)	450 × 210 × 321mm	450 × 210 × 244 mm
Weight Approximate (kg)	26	20
Operating Temperature Range	-10℃ ~ 50℃	
Max.Operating Altitude	3000m	
Relative Humidity	15% ~ 85% (No Condensing)	
Safety EMC / Standard	IEC 62619,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	VDE 4105,IEC 61727 / 62116,VDE 0126, AS 4777.2,CEI 0-21,EN 50549-1, G98,G99,C10-11,UNE 217002, NBR 16149 / NBR 16150	/
Battery Certification	UN38.3,IEC 62619	UN38.3,IEC 62619,CE
Installation Style	Floor-Mounted	
Warranty	10 years	

*Floor-Mounted

4 Winter Series

C&I ESS Solution

MS-G215 (CHN)

Safer
1 hour flame retardant protection
C4 shell protection
Rated power operation, the maximum temperature of the battery < 38 ℃

Enhanced Reliability
LFP Battery : safety, long lifespan and high-energy density
Aerosol fire suppression systems for battery packs and systems
Intelligent BMS active balancing provides complete protection
Wide temperature range : -20℃ ~ 45℃
IP54-rated for outdoor use

Multi-Fusion
All-in-One design
Integrated EMS, PCS, and BMS
Power supply redundancy design
Support black start function

More Flexible
Support expansion of MPPT modules, charging modules, and diesel generator connections

C&I ESS Solution

C&I Air-Cooled ESS

Technical Data	MS-G215 (CHN)
System Technical Specification	
Nominal Output Power (kW)	100
AC Output Frequency and Voltage	50 / 60Hz; 380 / 400Vac
Grid Type	3L / PE
Energy (kWh)	215
Dimension (W x D x H,mm)	1765 x 1000 x 2500
Weight Appr. (kg)	2695
Battery Operating Voltage (V)	660 ~ 876
Max. RTE	88.5%
System Communication	ETH / 4G
System Operating temperature range (℃)	-20 ~ 45
Max. working altitude (m)	≤ 3000
IP Rating of Enclosure	IP54
Anti-corrosion grade	C4
Installation Style	Floor-Mounted
Warranty	10 years
Converter Technical Specification	
AC Output Rated Current (A)	152
MAX. AC Output Current (A)	167
MAX.number of parallel	12 PCS
Peak Power (off-grid)	1.1 times of rated power
Power Factor	-1 ~ 1
THD	<3%
DC injection current	<0.5In
Operating Temperature Range (℃)	-20 ~ 60 (> 45℃ derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	485 x 780 x 220
Communication	CAN, RS485, ETH
Overvoltage protection	DC Type II / AC Type II
Protection level	Class 1
Max. Efficiency	98.5%

*Floor-Mounted

MS-G215-2H2 & MS-GS215-2H2 (EU)

*Floor-Mounted

MS-G215-2H2
MS-GS215-2H2 (EU)

Multi-Fusion

Integrated EMS, PCS, and BMS
Support expansion of MPPT module
Support off-grid backup power and diesel generator integration
Support black start function

Intelligent Control

Precision thermal management keeps battery temperature under 35℃ , reducing power consumption
Intelligent BMS provides complete protection
Intelligent EMS enables peak-valley arbitrage, anti-backflow, transformer overload protection, load tracking, demand control, backup power and phase separation

Safer

Lithium Iron Phosphate (LFP) batteries
System supports aerosol fire extinguishing solution
Battery compartment supports automatic gas venting and explosion-proof features

Scalable

Support up to 3 units off-grid backup, maximum 300kW / 645kWh
Support up to 20 units on-grid in parallel, maximum 2MW / 4.3MWh
Support up to 10 units off-grid in parallel, maximum 1MW / 2.15MWh

Reliable

Support 1.1 times overload for long-term operation
Balancing solutions effectively extend battery cycle life
Triple auxiliary power design ensures stable power supply
Operating temperature : -20℃ ~ 55℃
IP54 and C5 enclosure protection rating
Operate at altitudes up to 3000 meters

C&I ESS Solution

C&I Air-Cooled ESS

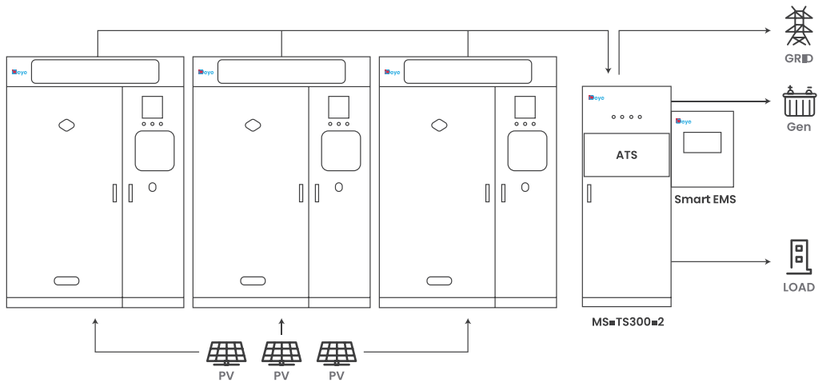
Technical Data	MS-GS215-2H2
PV Specification	
Out Rated Power (kWp)	100
Max. Input Voltage (V)	1000
Start Voltage (V)	200
MPPT Voltage Range (V)	180 ~ 880
Full Load Voltage Range (V)	450 ~ 850
Number of MPPT	6 pcs
MPPT Max.Current / Short Current (A)	40 / 60
Dimension (W × D × H, mm)	440 × 610 × 178
Weight Appr. (kg)	32

Technical Data	MS-G215-2H2	MS-GS215-2H2 (EU)
System Specification		
AC Output Power (kW)	100	
AC Output Frequency and Voltage	50 / 60Hz; 380 / 400Vac	
PV Input Power (kWp)	/	150
Grid Type	3L / N / PE	
Battery Operating Voltage (Vd.c.)	660 ~ 864	
Energy (kWh)	215	
Dimension (W × D × H, mm)	1765 × 1000 × 2500	
Weight Appr. (kg)	2700	2732
Battery Operating Voltage (Vd.c.)	DC : 600 ~ 935 (grid on) / DC : 700 ~ 935 (grid off)	
Max. RTE	88%	
System Communication	ETH / 4G	
System Operating Temperature Range (℃)	-20 ~ 45 (>45 Derating)	
Max. Working Altitude (m)	≤ 3000	
IP Rating of Enclosure	IP54	
Anti-Corrosion Grade	≤ C5	
System Certification	UN3536, IEC 61000, IEC 62477, IEC 60730	UN3536, IEC 61000, IEC 62477,IEC 62109, IEC 60730
Warranty	10 years or Cycle Life ≥ 6000 (@25℃ ±2℃ , 0 .5C / 0.5C, 70%EOL)	
Converter Specification		
AC Output Rated Current (A)	152	
Max. AC Output Current (A)	167	
Max.Number of Parallel (off-grid)	10 pcs (off-gird)	
Peak Power	1.1 time of rated power	
Power Factor	-1 ~ 1	
THD	<3%	
DC Injection Current	<0.5ln	
Display	LCD	
Relative Humidity	15% ~ 85% (No Condensing)	
Dimension (W × D × H, mm)	506 × 772 × 310	
Communication	CAN ,RS485, ETH	
Overvoltage Protection	DC Type II / AC Type II	
Protection Level	Class 1	
Grid Regulation	EN 50549, AS 4777.2, CEI 0-21, CEI-016, NRS 097	
Max. Efficiency	97.6%	

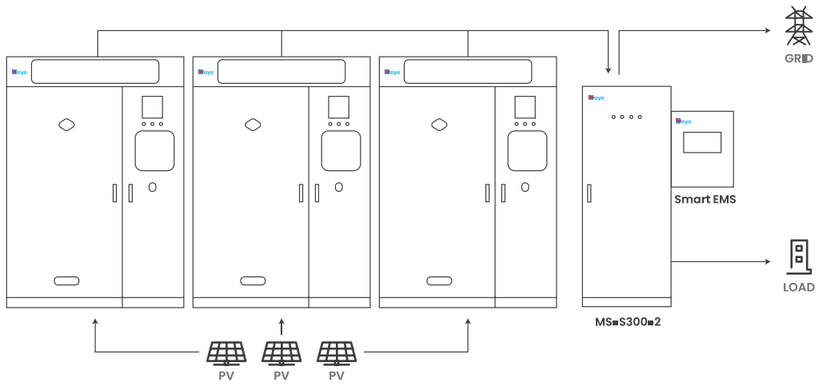
C&I ESS Solution

C&I Air-Cooled ESS

Typical Application Scenarios MS-GS215-2H2 | Solar & battery energy storage on-grid back up



Typical Application Scenarios MS-GS215-2H2 | Solar & battery energy storage on-grid solution



Typical Application Scenarios MS-GS215-2H2 | Solar & battery energy storage off-grid solution