Stock code: 605117

# WORLD-LEADING ENERGY STORAGE SYSTEM PROVIDER

TO MAKE ESS BETTER


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Note: The technical data above mentioned may be updated or revised due to product development.

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# 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.**
- **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.

**100+**
R & D Team

**29+**
Professional Laboratory

**4+**
Automated Production Line

# DEYE MILESTONES

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

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

## 2020
Founded Deye ESS company and prepared to build a team with senior industry experience,Devoted to make ESS better.

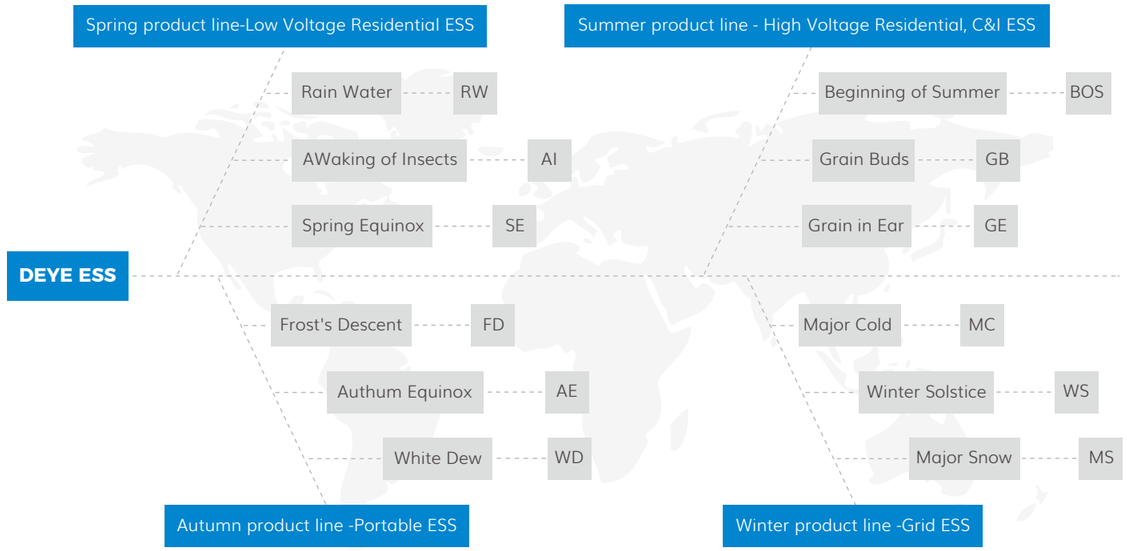
## 2019
By the end of 2019, with total shipments 30,000+, Deye hybrid inverter has become Top 3 in South Africa, Pakistan and Top 1 Chinese brand in USA.

## 2017
Deye has launched first generation hybrid inverter and attracted a lot of attention with many unique features such as V/f droop control technology and battery DC/DC topology etc...

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

# CORE TECHNOLOGY

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

High Voltage
All-In-One Hybrid ESS

High Voltage
All-in-one

# LOW VOLTAGE SERIES

# SE-G5.1 Pro-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. 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.

## 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.

# 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.

# 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) | |

# 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 | 250 |
| | Max | 180 | 180 | 250 | 250 | 250 | 250 |
| | Peak(10s,25°C) | 150 | 270 | 360 | 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.

# HIGH VOLTAGE SERIES

# BOS-G (Pro)


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

- **Safe And Reliable**
  Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

- **Intelligent BMS**
  It has protection functions including over-discharge, over-charge, overcurrent and over-high or low temperature. The systemcan automatically manage charge and discharge state and balance current and voltage of each cell.

- **Eco-friendly**
  The whole module is non-toxic, non-polluting and environmentally friendly.

- **Flexible Configuration**
  Multiple battery modules can be in parallel for expanding capacity and power.Support USB upgrade,wifi upgrade (optional), remote upgrade (Compatible with Deye inverter).

- **Wide Temperature**
  Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.



## Technical Data

| Model | | B0S-G | | | B0S-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<br>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 | | 589×590×2240 |
| 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 ≥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 | | ≤2000m | | | | |
| IP Rating of Enclosure | | IP65 | | | | |
| Storage Temperature (°C) | | 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-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.

# GE-F60-EU



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

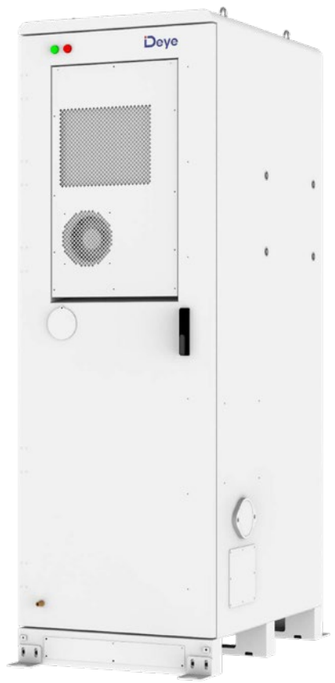
- Rated power operation the maximum temperature of the battery is less than 40°C.
- EMS,hybrid inverter and BMS integrated technology,power supply redundancy design, support black start function,Off grid operation,etc.
- Suitable for high rate cyclic charging and discharging scenarios.
- Lithium Iron 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 |
| 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) | 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 | 50 |
| | Nominal | 100 | |
| | Peak Discharge | 125 | |
| Working Temperature (°C) | | Charge: 0~55/Discharge: -20~55 | |
| Status Indicator | | Yellow: Battery High Voltage Power On<br>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.

# 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℃.
- 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, 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 1200KWh.



## 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 |