Deye
Stock code:605117

# WORLD LEADING

ENERGY STORAGE SYSTEM PROVIDER

## Deye Energy Storage Product Catalog

Global


Deye

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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 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 | | $LiFePO_4$ |
| Built-In Circuit Breaker | | 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 | | 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 ( AS、AF、LATAM )

### Exceptional Performance
All-in-One design
Integrated 3.6kW hybrid inverter and 5.3kWh LFP battery
Max. charging/discharging current of 75A

### Enhanced Reliability
≥ 6000 Cycles, 70%EOL
Wide temperature range: -10℃ ~ 55℃
IP65-rated for indoor and outdoor use
Support natural cooling

### 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
Support Max. 16 units in parallel ( 57.6kW / 84.8kWh )
Support expansion of Deye 5.3kWh battery, Max. 31 batteries expansion, Max. capacity of 164.3kWh



# Residential ESS Solution

All-in-One ESS ( LV )

| Technical Data | RW-F5.3-2H3 ( AS、AF、LATAM ) |
|---|---|
| **Inverter Technical Specification** | |
| **Battery Input Data** | |
| Battery Type | $LiFePO_4$ |
| **PV String Input Data** | |
| Max. PV Input Current ( A ) | 4680W |
| Rated PV Input Voltage ( Vdc ) | 370 ( 125 ~ 500 ) Vdc |
| Max. PV Short-circuit Current ( A ) | 27+27A |
| Start Up DC Voltage ( Vdc ) | 125Vdc |
| MPPT Range ( V ) | 150 ~ 425Vdc |
| PV Input Current ( A ) | 18+18A |
| Number of MPP Trackers | 2 |
| Number of Strings Per MPP Tracker | 1+1 |
| **AC Output Data** | |
| Rated AC Output and UPS Power ( W ) | 3600 / 3600W |
| AC Output Rated Current ( A ) | 16.4 / 15.7A |
| Max.AC Output ( off-gird ) Current ( A ) | 18 / 17.2A |
| Max. Continuous AC Pass Through (A) | 35A |
| Peak Power ( off grid ) | 35A |
| Power Factor | 0.8 leading to 0.8 lagging |
| Output Frequency and Voltage | 50Hz ( 45Hz ~ 55Hz ), 60Hz ( 55Hz ~ 65Hz ), L / N ( PE ), 220 / 230 Vac |
| Grid Type | Single phase |
| DC Injection Current ( mA ) | <0.5% In ( mA ) |
| THD | 0.8 leading to 0.8 lagging |
| **Efficiency** | |
| MPPT Efficiency | >99% |
| **Protection** | |
| 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 |
| Safety EMC / Standard | IEC / EN 61000-6-1 / 2 / 3 / 4, IEC / EN 62109-1, IEC / EN 62109-2 |
| **General Data** | |
| Cooling | Natural Cooling |
| **Battery Technical Specification** | |
| **Other Parameter** | |
| Operating Temperature ( ℃ ) | Inverter : -40℃ ~ 60℃ ( >45℃ derating ), Battery Charge and Discharge : -10° C ~ 55℃ |
| Humidity | 15% ~ 85% ( No Condensing ) |
| IP Rating of Enclosure | IP65 |
| Noise ( dB ) | <30 dB |
| System Dimension ( W × H × D,mm ) | 616 × 191 × 690mm ( Excluding connectors and brackets ) |
| System Weight Approximate ( kg ) | 71kg |
| LCD Display | Colorful Touch LCD |
| Installation Location | Wall-Mounted |
| Warranty Period | 10 years ( More Info Please Refer to Warranty Policy ) |

*Wall-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℃<br>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 |

*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 | |
| 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<br>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

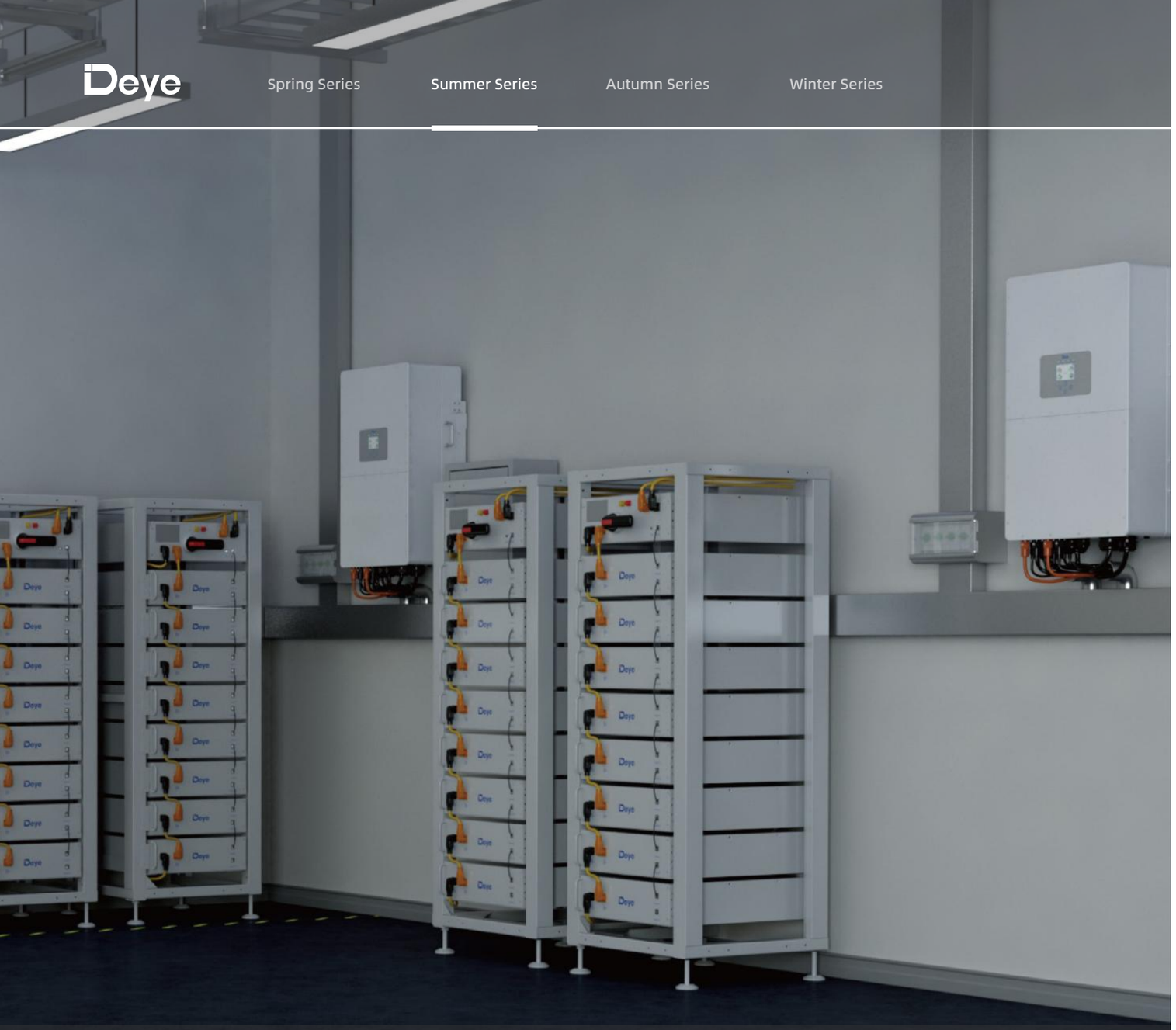


# Indoor C&I ESS Solution

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

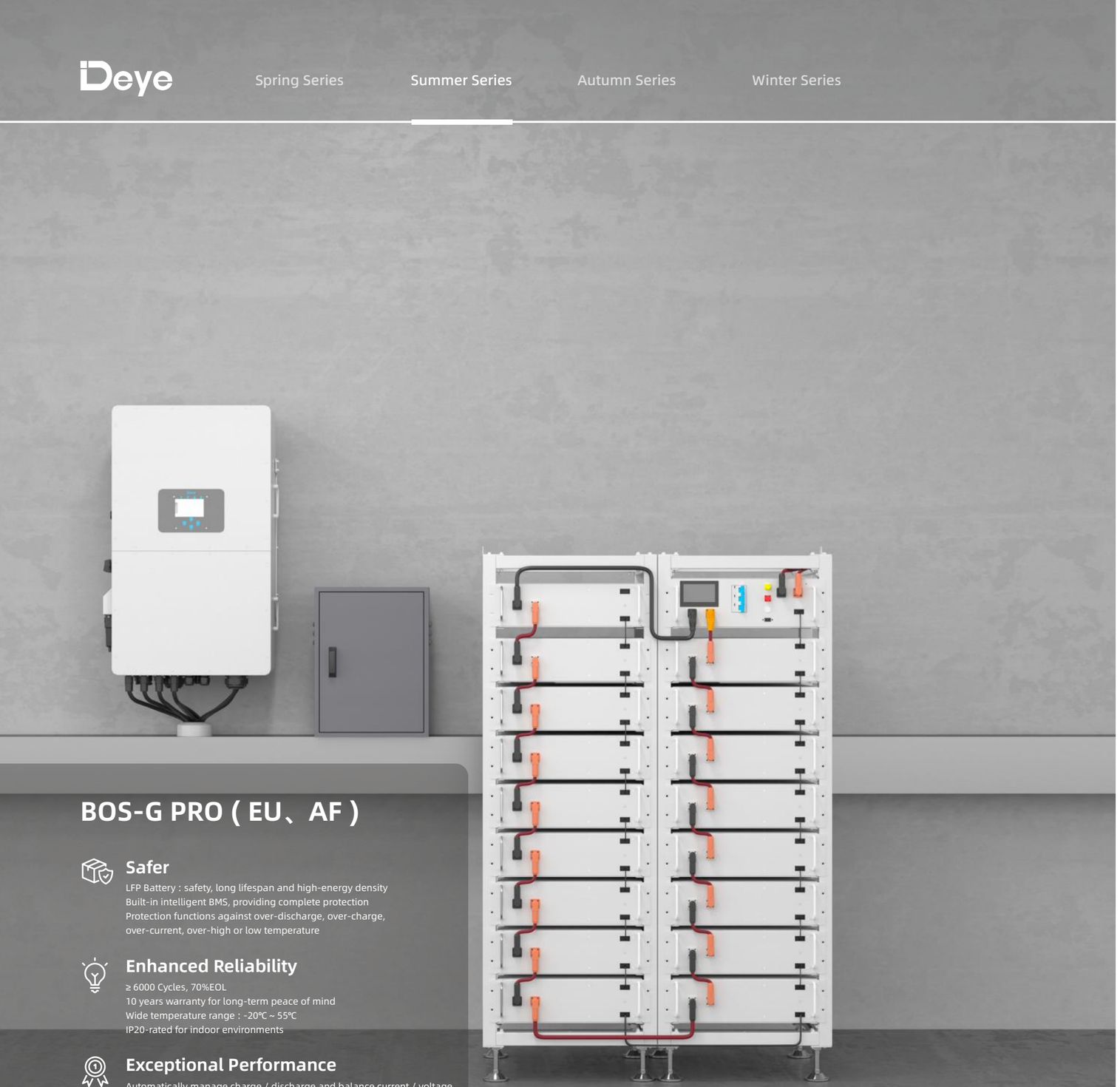


# Small-Scale C&I ESS Solution

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<br>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

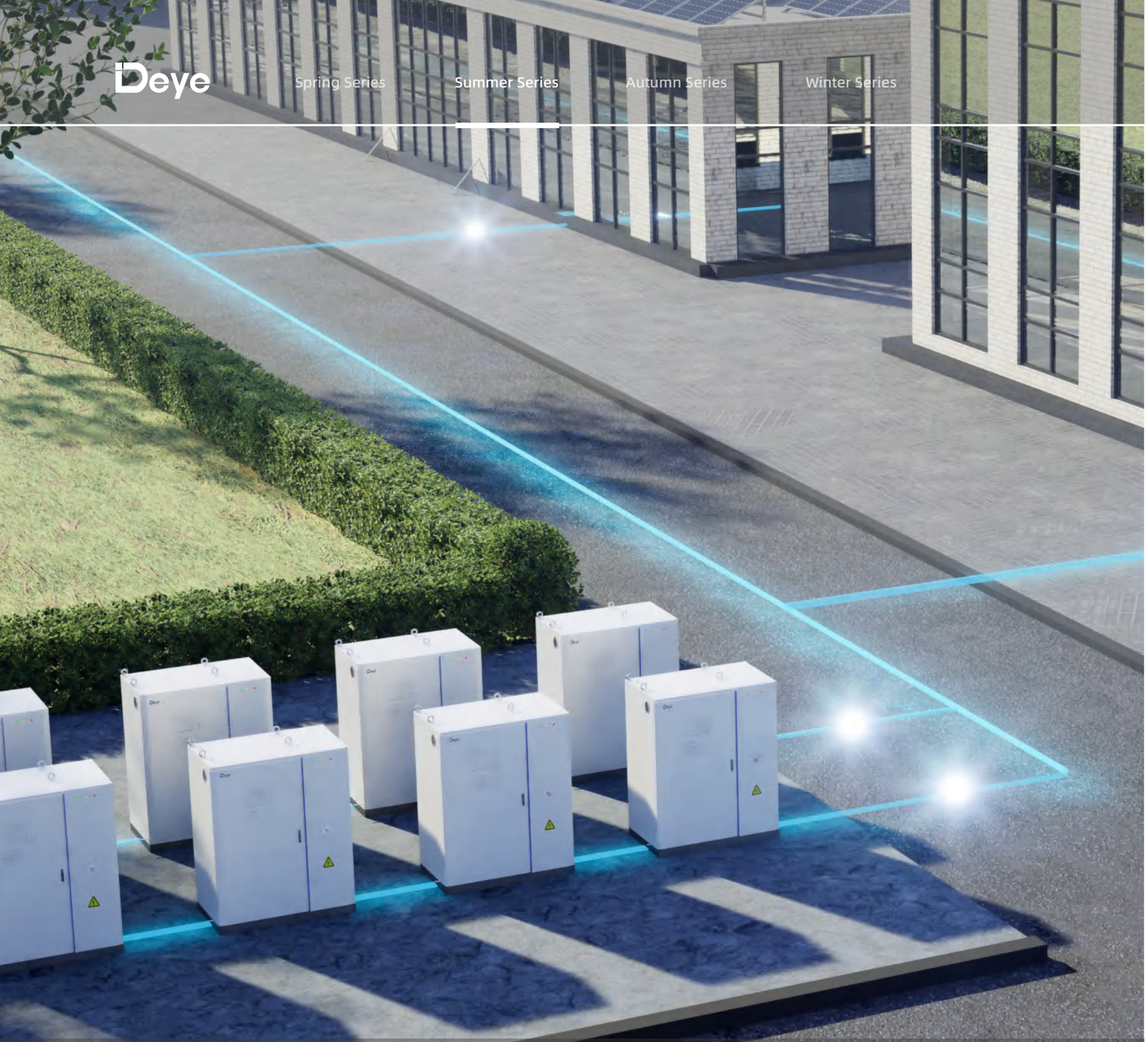


# Small-Scale C&I ESS Solution

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** | | |
| Working Temperature ( ℃ ) | | Charge : 0 ~ 55 / Discharge : -20 ~ 55 |
| 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-F2.0-2H2
# 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-F2.0-2H2 | 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

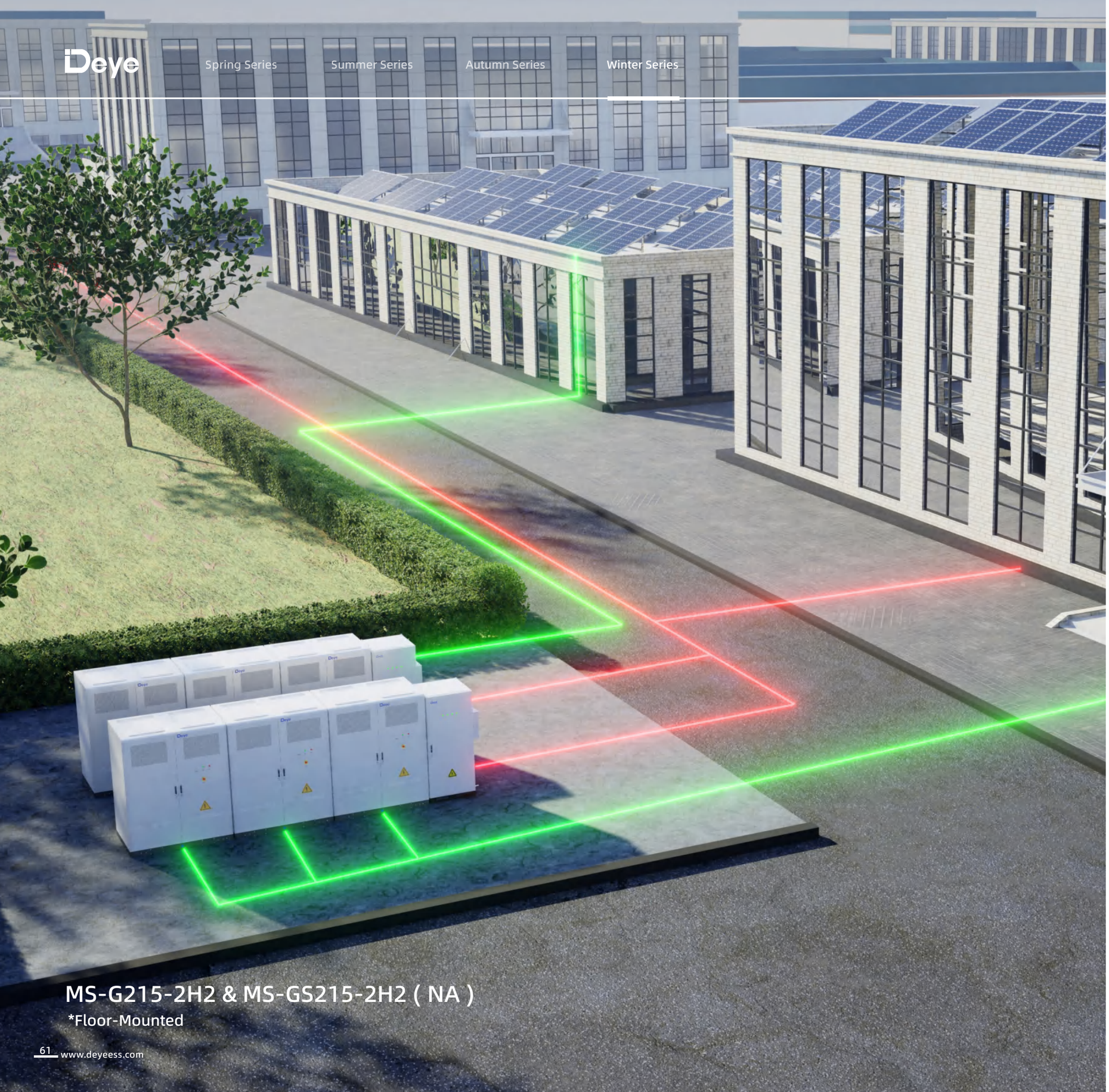


# C&I ESS Solution

C&I Air-Cooled ESS

| Technical Data | MS-G215 ( CHN ) |
|---|---|
| **Inverter Technical Specification** | |
| PV String Input Data | |
| Rated PV Input Voltage ( Vdc ) | 1000 |
| Start Up DC Voltage ( V ) | 200 |
| Full Load DC Voltage Range ( V ) | 450 ~ 850 |
| MPPT Voltage Range ( Vdc ) | 180 ~ 880 |
| Number of MPP Trackers | 6 pcs |
| MPPT Max.current / Short Current ( A ) | 40 / 60 |
| Out Rated Power ( kWp ) | 150 |
| AC Output Data | |
| Max. AC Output Power ( W ) | 152 |
| AC Output Rated Current ( A ) | 167 |
| Peak Power ( off grid ) | 1.1 time of rated power |
| Power Factor | -1 ~ 1 |
| DC Injection Current ( mA ) | <0.5In |
| THD | <3% |
| Efficiency | |
| Max. Efficiency | 97.60% |
| MAX.number of parallel ( off grid ) | 10 pcs |
| Protection | |
| Grid Regulation | EN 50549,AS 4777.2,CEI 0-21， CEI-016, NRS 097 |
| Overvoltage protection | DC Type II / AC Type II |
| Protection level | Class 1 |
| General Data | |
| Dimension ( W × H × D,mm ) | 506 × 772 × 310 |
| Inverter Communication | CAN,RS485, ETH |
| Relative Humidity | 15% ~ 85% ( No Condensing ) |
| Display | LCD |

*Floor-Mounted



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

*Floor-Mounted



# MS-G215-2H2
# MS-GS215-2H2 ( NA )

## 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 ) | 150 |
| 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 |

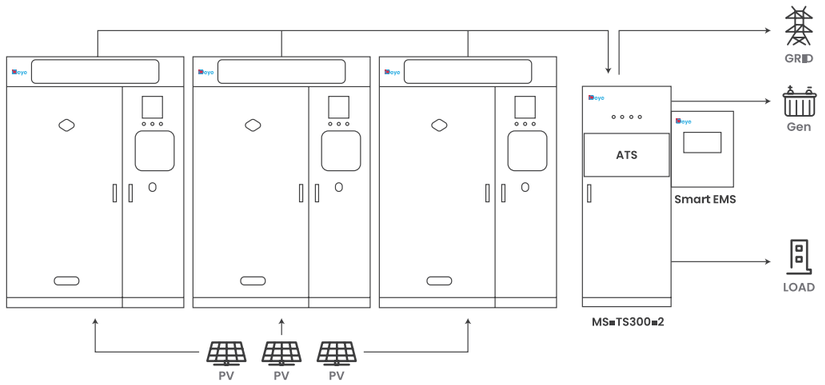
| Technical Data | MS-G215-2H2/MS-GS215-2H2(NA) | |
|---|---|---|
| **System Specification** | | |
| AC Output Power ( kW ) | 100 | |
| AC Output Frequency and Voltage | 50 / 60Hz; 380 / 400Vac | |
| PV Input Power ( kWp ) | / | 150 |
| Grid Type | 3L / N / PE | |
| Battery Operating Voltage ( Vd.c. ) | 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 | <0.5In | |
| 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% | |



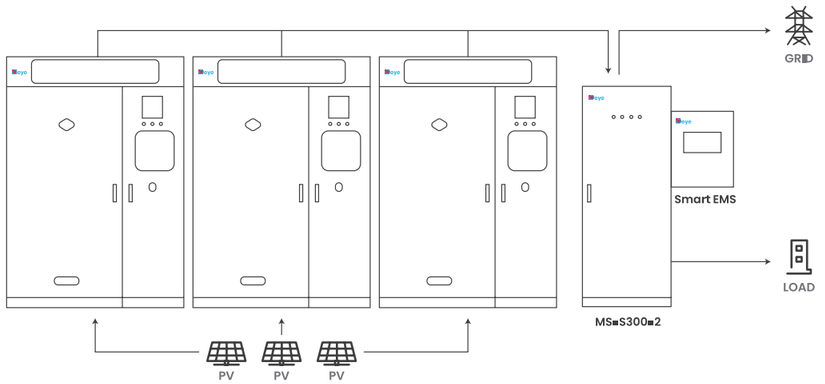
# C&I ESS Solution

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