

# Commercial & Industrial Energy Storage Solutions



**Dyness Europe B.V.**  
Capelle aan den IJssel

**Dyness Germany GmbH**  
Wetzlar

**DYNESS UK Limited**  
Birmingham



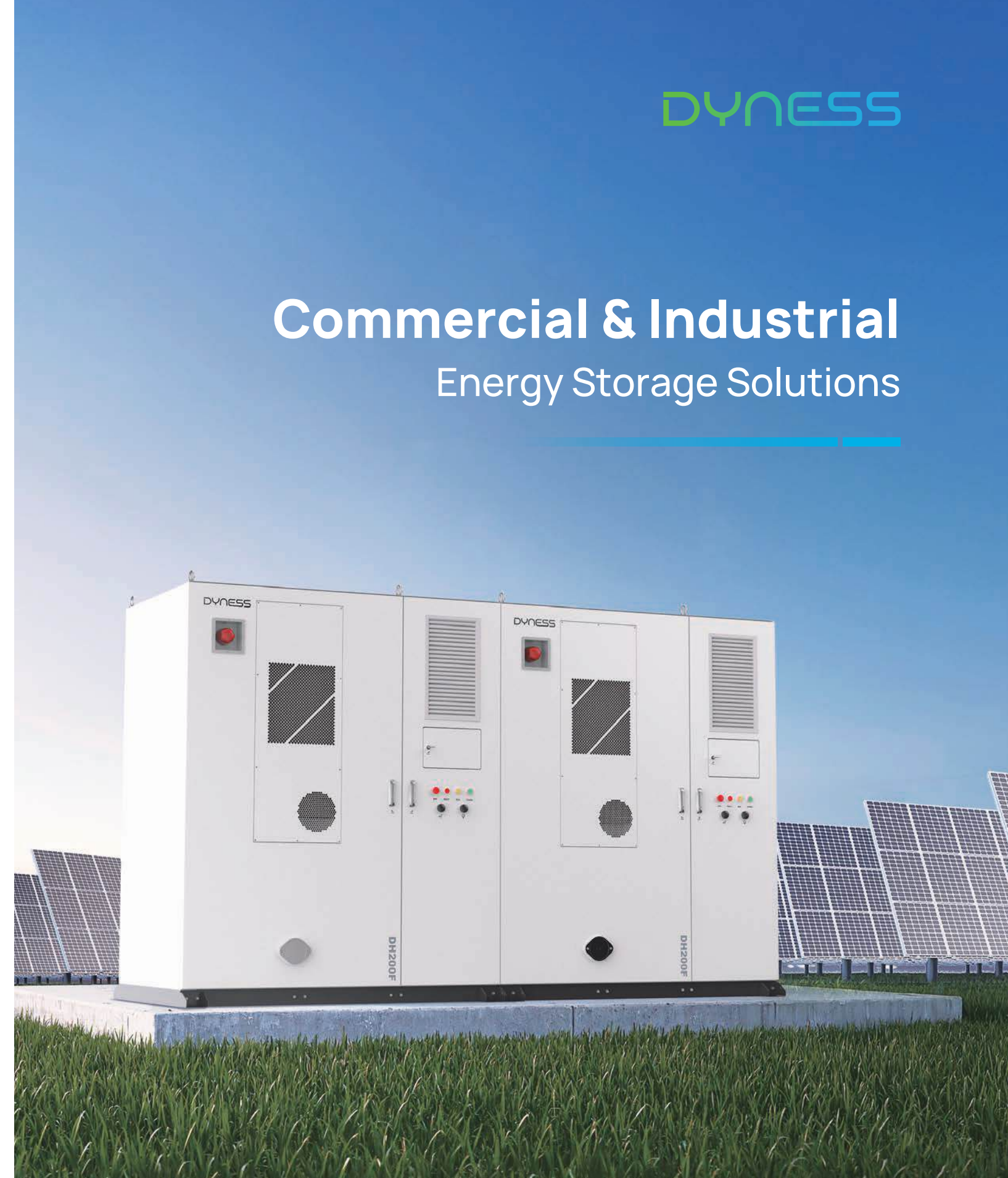
**Dyness Digital Energy Technology Co., LTD.**

Web : [www.dyness.com](http://www.dyness.com)

E-mail : [sales@dyness-tech.com](mailto:sales@dyness-tech.com)

Address : No. 688 Liupu Road, GuoxiangStreet, Wuzhong Economic Development Zone, Suzhou

File version-20250910-EN(EU). Information might be subject to change without notice during product improving



Europe

Discover Your Nature



# About Dyness

---

Dyness, founded in 2017, is a global pioneering energy storage solutions innovator. Relying on advantageous technology and robust product R&D capabilities, Dyness has established a comprehensive product portfolio for full scenarios, including C&I and residential energy storage throughout the entire lifecycle. With its global headquarters in Suzhou, China, Dyness has provided safe, reliable, and high-quality products and services to 500,000+ users in 100+ countries and regions.

At Dyness, customer satisfaction is always Dyness' top priority. Aligned with its mission to reduce the Earth's temperature, Dyness is collaborating with 90+ global brand partners to reduce the cost of renewable energy usage for users. As the pace of global energy transition accelerates, Dyness is committed to promoting sustainable development on a global scale through commercial deepening. It strives to work alongside the industry, market and society to build a low-carbon future worldwide.

- **Mission**

---

Driving digital energy development, reducing the cost of energy acquisition, and lowering Earth's temperature.

- **Vision**

---

Achieving customer priority, enabling the advancement of global sustainable pursuits, and striving to become a better version of oneself.

- **Values**

---

Be True | Be Pragmatic | Be Excellent | Be Altruistic

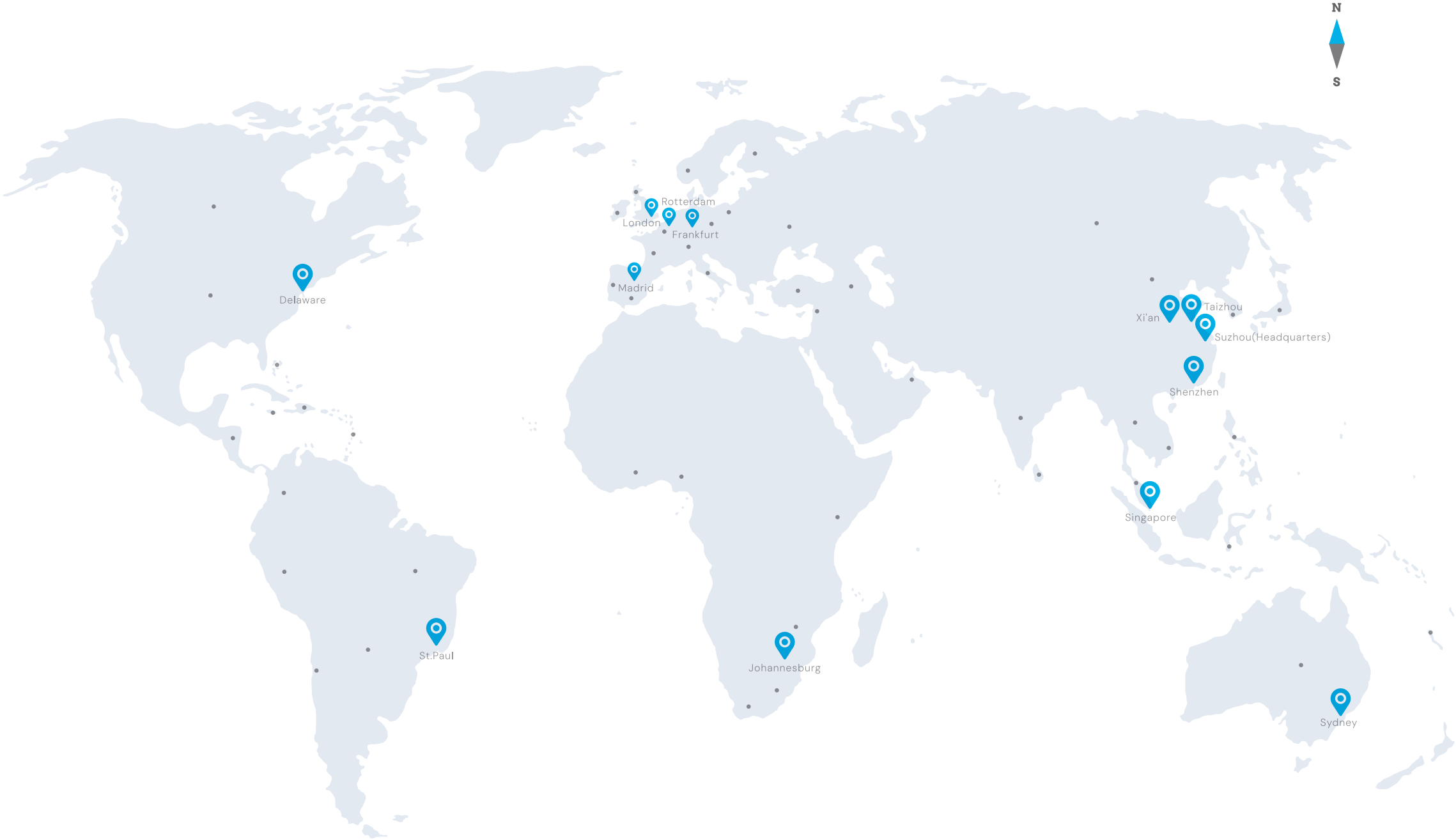


# Global Footprint

## The Global Pioneering Energy Storage Solutions Innovator

- EUPD Top Brand PV (Storage)
- China TOP 500 Hidden Unicorn
- iF Desigh Award 2024 Winner

.....



● Main Shipping Areas

📍 Branches

**13**

Global Branches

**2**

Production Centres

**2**

R&D Centres

**3GWh**

Annual Production Capacity

**100+**


Global Markets


**500,000+**

Users




# Commercial and Industrial Energy Storage Products

 Optimal Investment

 Safe & Reliable

 High Energy Density

 All Scenario

 Intelligent O&M



# STACK100 Pro



Stack100 Pro is suitable for residential and small commercial and industrial scenarios. Rackless and stackable design is easy to plug and play. It supports 12 clusters in parallel with a maximum capacity of 921kWh and supports 1C charge/discharge.

## Features and Advantages

### Flexible Expansion

Up to 12 clusters in parallel,  
15KWh--921KWh capacity

### 1C Rate

Suitable for grid frequency regulation, charging stations and other scenarios, cost saving

### Unparalleled Silence

Original cooling design with natural convection for ultimate silence

### Safe & Reliable

Six-layer safety protection, IP66 high protection rating

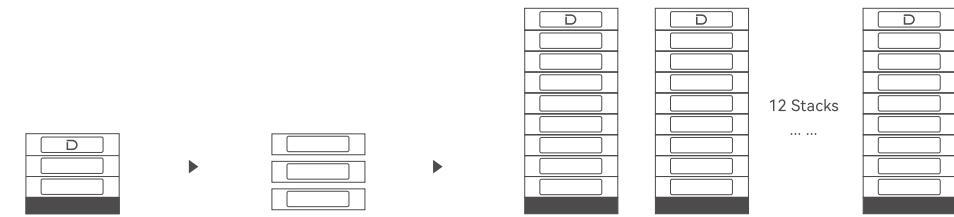
### Easy Installation

0 wiring, rackless free stacking, plug-and-play, one cluster installation in 30min

### Battery Equalization

Free mixing of modules within three years

## Specification



| Model                                   | STACK100 Pro   |
|---|--|
| Battery Type                            | LiFePO <sub>4</sub>  |
| Module Voltage/Capacity                 | 51.2V/100Ah  |
| Single Module Weight                    | 55kg   |
| System Modules Serial Number            | 3~15   |
| System Energy Range                     | 15.36~76.8kWh  |
| Operating Voltage                       | 134V~864V  |
| Recommended Charge/Discharge Current    | 50A (0.5C)   |
| Max.Charge/Discharge Current            | 100A (1C)  |
| Peak Discharge Current(2min 25°C)       | 125A(1.25C)  |
| Depth of Discharge                      | 95%  |
| Communication                           | CAN/RS485  |
| Cycle Life[1]                           | ≥8000 cycles / 10 Years  |
| Single Cluster Dimension[W/D/H] (mm)[2] | 657/460/(292+169*n)  |
| Charging Temp. Range                    | 0°C~55°C/-20°C~55°C (Optional)   |
| Discharging Temp. Range                 | -20°C~55°C   |
| System Protection Level                 | IP66   |
| Fire Protection System                  | Pressure relief valve, Aerosol fire extinguisher, Temperature probe, Aerogel pad between batteries(Optional), Fireproof protection for the module(Optional), CO detector(Optional) |
| Installation method                     | Cable-free stacking  |
| Cooling method                          | Natural Cooling  |
| WIFI Module                             | Built-in WIFI module; APP OTA function   |
| Battery Module Name                     | S51100 pro   |
| Certification & Safety Standard         | CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3/VED2510   |
| Compatible Inverters                    | Solis/GoodWe/Growatt/DEYE/Solinteg ect.  |

[1] Test conditions: 0.2C Charging& Discharging, @25°C, 95% DOD, 70%EOL  
[2] 'n' stands for the number of battery modules

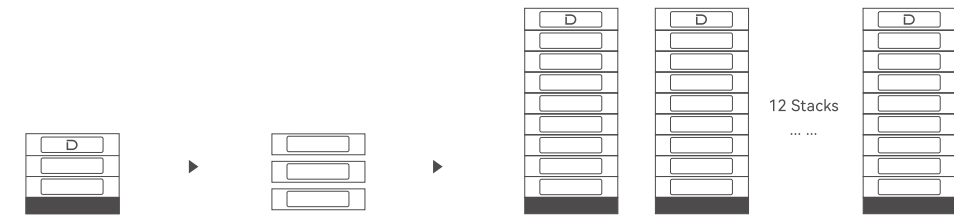


# STACK100

STACK100 is suitable for residential and small commercial and industrial scenarios. Rackless and stackable design is easy to plug and play. It supports 12 clusters in parallel with a maximum capacity of 921kWh and supports 1C charge/discharge.



## Specification



| Model                                | STACK100   |
|--------------------------------------|--|
| Battery Type                         | LiFePO <sub>4</sub>  |
| Module Voltage/Capacity              | 51.2V/100Ah  |
| Single Module Weight                 | 47kg   |
| System Modules Serial Number         | 3~15   |
| System Energy Range                  | 15.36~76.8kWh  |
| Operating Voltage                    | 134~864V   |
| Recommended Charge/Discharge Current | 50A (0.5C)   |
| Max.Charge/Discharge Current         | 100A (1C)  |
| Peak Discharge Current(2min 25°C)    | 125A(1.25C)  |
| Depth of Discharge                   | 95%  |
| Communication                        | CAN/RS485  |
| Cycle Life*                          | ≥8000 cycles / 10 Years  |
| Single Cluster Dimension[W/D/H]      | 590/390/(233+133*n), "n" stands for the number of battery modules              |
| Charging Temp. Range                 | 0°C~55°C/-20°C~55°C (Optional)   |
| Discharging Temp. Range              | -20~55°C   |
| Protection Level                     | IP20   |
| Fire Protection System               | Aerosol fire extinguisher  |
| Installation method                  | Stack type   |
| Cooling method                       | Forced wind cooling  |
| WiFi Module                          | Built-in WiFi module; APP OTA function   |
| Battery Module Name                  | S51100   |
| Certification & Safety Standard      | CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3/VED2510                           |
| Compatible Inverters                 | Kostal/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG ect. |

\* Test conditions: 0.2C Charging&Discharging, @25°C, 95% DOD

## Features and Advantages

### Flexible Expansion

Up to 12 clusters in parallel,  
15kWh--921kWh capacity

### 1C Rate

Suitable for grid frequency regulation, charging stations and other scenarios, cost saving

### Automatic Self-heating

-20°C to 55°C operating temperature (optional)

### Ultra Safe

Intelligent fire extinguishing system, detects and extinguishes fire in 5s

### Easy Installation

0 wiring, rackless free stacking, plug-and-play, one cluster installation in 30min

### Battery Equalization

Free mixing of modules within three years

# STACK280



STACK280 is suitable for residential, small commercial and industrial scenarios. Rackless and stackable design is easy to plug and play. It uses a high capacity 280Ah battery to support 12 clusters in parallel with a maximum capacity of 2.58MWh. Built-in aerosol fire extinguisher that eliminates fire hazards within 5s, all around protection for your electrical safety.

## Features and Advantages

### Flexible Expansion

Up to 12 clusters in parallel, 43kWh~2.58MWh capacity

### Easy Installation

0 wiring, rackless free stacking, plug-and-play

### Module Mixing

Mixing of modules within three years

### Ultra Safe

Intelligent fire extinguishing system, detects and extinguishes fire in 5s

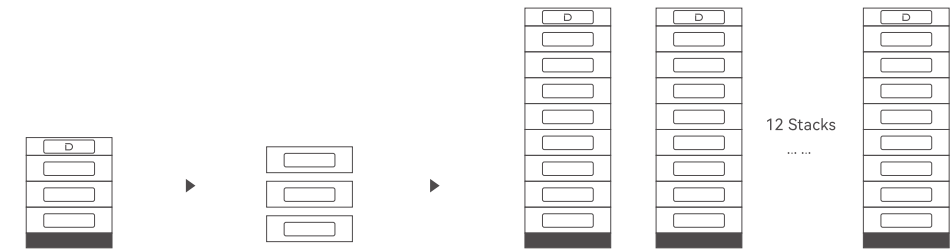
### Long Life

LFP cells, 8000+ cycles, 10 years long warranty

### Fast Charge/Discharge

Max. continuous charge/discharge current: 200A

## Specification



| Model                                | STACK280   |
|--------------------------------------|--|
| Battery Type                         | LiFePO <sub>4</sub>  |
| Module Voltage/Capacity              | 51.2V/280Ah  |
| System Modules Serial Number         | 3~15   |
| System Energy Range                  | 43kWh~215.04kWh  |
| Operating Voltage                    | 134.4V~864V  |
| Recommended Charge/Discharge Current | 140A (0.5C)  |
| Max.Charge/Discharge Current         | 200A (0.7C)  |
| Peak Discharge Current(2min 25°C)    | 280A(1C )  |
| Depth of Discharge                   | 95%  |
| Communication                        | CAN/RS485  |
| Cycle Life <sup>[1]</sup>            | ≥8000 cycles/10 Years  |
| Single Cluster Dimension[W/D/H](mm)  | 770/425/(363+230*n) "n" stands for the number of battery modules, up to a maximum of 8. <sup>[2]</sup> |
| Charging Temp. Range                 | 0°C~55°C/-20°C~55°C (Optional)   |
| Discharging Temp. Range              | -20~55°C   |
| Protection Level                     | IP20   |
| Single Module Weight                 | 110kg  |
| Fire Protection System               | Aerosol fire extinguisher  |
| Installation method                  | Stack type   |
| Cooling method                       | Forced wind cooling  |
| WiFi Module                          | Built-in WiFi module; APP OTA function   |
| Battery Module Name                  | S51280   |
| Certification & Safety Standard      | UN38.3   |
| Compatible Inverters                 | Solis/Growatt/Sosen/Solinteg/Atess/Magarevo ect.   |

[1] Test conditions: 0.2C Charging & Discharging, @25°C, 95% DOD

[2] If the installation is on an upper floor, you will need to evaluate the floor weighing before determining the number of stacks.

# PowerRack HV4

PowerRack HV4 series features a rack-mount structure design that is ideal for medium-sized industrial and commercial applications. It supports up to 12 clusters of parallel machines with a maximum expansion capacity of 921 kWh. This effectively enhances PV consumption, provides backup power or peak shifting to ensure the safe and stable operation of the system.



## Features and Advantages

### Flexible Expansion

Modular design, up to 12 clusters in parallel, 20.48 kWh--921 kWh capacity

### Economical

Rack structure, lower cost, higher space utilization

### Long-term Reliability

LFP cells, 10 years long warranty, intelligent BMS monitors battery status in real time

### Intelligent O&M

Optional Wi-Fi module, real-time data monitoring and troubleshooting, one-key intelligent upgrade

## Specification

|                                 |  |
|---------------------------------|--|
| Model                           | HV51100  |
| Battery Type                    | LiFePO <sub>4</sub>  |
| Nominal Battery Energy          | 5.12kWh  |
| Nominal Capacity                | 100Ah  |
| Nominal Voltage                 | 51.2V  |
| Net Weight                      | 43.5kg   |
| Dimension(W/D/H)                | 481/535/140mm  |
| Charging Temp. Range            | 0-55°C   |
| Discharging Temp. Range         | -20-55°C   |
| Communication                   | CAN  |
| Cycle Life *                    | ≥6000 Cycles   |
| Protection Level                | IP20   |
| Expansion                       | Up to 15 units in series   |
| Compatible Inverters            | Ingeteam/Solis/GoodWe/Solplanet/DEYE/Hoymiles/SOLINTEG/SINENG/Sinexcel/TBB power ect |
| Certification & Safety Standard | UN38.3/CE-EMC  |

\* Test conditions: 0.2C Charging/Discharging, @25°C, 95% DOD

| Rack Type                         | PowerRack HV4         |                        |                                |
|-----------------------------------|-----------------------|------------------------|--------------------------------|
| Rack System Control unit Type     | BDU100                |                        |                                |
| Battery Module Type               | HV51100               |                        |                                |
| Battery Module Quantity           | 4~7 units             | 8~11 units             | 12~15 units                    |
| Nominal Battery Energy            | 5.12kWh×n(n=4~7)      | 5.12kWh×n(n=8~11)      | 5.12kWh×n(n=12~15)             |
| Nominal Capacity                  | 100Ah                 | 100Ah                  | 100Ah                          |
| Nominal Voltage                   | 51.2V×n(n=4~7)        | 51.2V×n(n=8~11)        | 51.2V×n(n=12~15)               |
| Nominal Power Output              | 3.07kW×n(n=4~7)       | 3.07kW×n(n=8~11)       | 3.07kW×n(n=12~15)              |
| Max.Power Output                  | 5.12kW×n(n=4~7)       | 5.12kW×n(n=8~11)       | 5.12kW×n(n=12~15)              |
| Recommend Charging Current        | 50A                   | 50A                    | 50A                            |
| Recommend Discharging Current     | 50A                   | 50A                    | 50A                            |
| Net Weight                        | 62+12+43.5kg×n(n=4~7) | 86+12+43.5kg×n(n=8~11) | 62×2+12+43.5kg×n(n=12~15)      |
| Dimension(W/D/H)                  | 601/610/1392mm        | 601/610/2012mm         | 601/610/1392mm*2(Two clusters) |
| Module Quantity and Configuration | 4~7 Units in series   | 8~11 Units in series   | 12~15 Units in series          |



# BF100

BF100 is a DC battery cabinet that can be installed outdoors. It is air-cooling design and is equipped with a wall-mounted hybrid inverter to achieve AC output. It is suitable for small-sized industrial and commercial scenarios.



## Features and Advantages

### Flexible Expansion

Single unit capacity options of 86/100kWh, supports DC expansion, with flexible capacity configuration

### Ultra-long Lifespan

LFP battery, 8000+ cycles, supports up to 10 years of extended warranty for batteries.

### Simple O&M

Modular design, side outlet mode, easy to install, and easy to maintain.

### Safe & Reliable

Three-level fire detection + active exhaust + passive explosion-proof design to eliminate hidden hazards and ensure safe operation

## Specification

| Model                 | BF100-C80  | BF100-C100     |
|-----------------------|--|----------------|
| Battery               |  |                |
| Battery Type          | LFP (LiFePO <sub>4</sub> )                                       |                |
| Battery Capacity      | 280Ah  |                |
| Rated Current         | 140A   |                |
| Max. Current          | 160A   |                |
| PACK Quantity         | 1P16S*6  | 1P16S*7        |
| Voltage Range         | 278.4~345.6Vdc   | 324.8~403.2Vdc |
| Nominal Capacity      | 86kWh  | 100kWh         |
| System                |  |                |
| Weight                | 1100±100kg   | 1200±100kg     |
| Dimension (W/D/H)     | 725/1200/2260mm  |                |
| Max. Efficiency       | 94%  |                |
| Air Conditioner Power | 2kW (Cooling), 1kW (Heating)                                     |                |
| Operating Temperature | -20~50°C (Derating above 45°C)                                   |                |
| Operating Humidity    | 0~95%RH ( Non-condensing)  |                |
| Ingress Protection    | IP55   |                |
| Anti-corrosion Grade  | C3 (Optional C4)   |                |
| Cooling Method        | Air-cooling  |                |
| Noise                 | ≤65dB  |                |
| Display               | Touch screen   |                |
| Elevation             | 3000m (Derating above 2000m)                                     |                |
| Fire Protection       | Aerosol, Multi-sensor/Water ingress, Explosion-proof ventilation |                |
| Communication         | Ethernet/4G/RS485  |                |
| Certification         | CE, LVD, UN38.3  |                |
| Depth of Discharge    | 95%  |                |
| Cycle Life*           | ≥8000 cycles/10 years  |                |
| Compatible Inverters  | Solis/SOSEN/SOLINTEG/Megarevo                                    |                |

\* Operating conditions: 0.2C Charging & Discharging, @25°C, 95% DOD

# BF200

BF200 is a DC battery cabinet that can be installed outdoors. It is air-cooling design and is equipped with a wall-mounted hybrid inverter to achieve AC output. It is suitable for small-sized industrial and commercial scenarios.



## Features and Advantages

### Flexible Expansion

Supports multiple DC expansion units, with flexible capacity configuration

### Simple O&M

Modular design, side outlet mode, easy to install, and easy to maintain

### Ultra-long Lifespan

LFP battery, 8000+ cycles, supports up to 10 years of extended warranty for batteries

### Safe & Reliable

Three-level fire detection, anti-explosion design, combined aerosol and water fire fighting, full-stack safety protection system

## Specification

|                       |   |
|-----------------------|---|
| Model                 | BF200   |
| Battery               |   |
| Battery Type          | LiFePO <sub>4</sub>   |
| Battery Capacity      | 280Ah   |
| PACK Configuration    | 1P16S*15  |
| Rated Current         | 140A  |
| Max. Current          | 160A  |
| Voltage Range         | 696~864Vdc  |
| Nominal Capacity      | 215kWh  |
| System                |   |
| Weight                | Approx. 2500kg  |
| Dimension (W/D/H)     | 1320/1190/2250mm  |
| Max. Efficiency       | 94%   |
| Air Conditioner Power | 5kW (Cooling), 3kW (Heating)  |
| Operating Temperature | -20~50°C (Derating above 45°C)  |
| Operating Humidity    | 0~95%RH (Non-condensing)  |
| Ingress Protection    | IP55  |
| Anti-corrosion Grade  | C4  |
| Cooling Method        | Air-cooling   |
| Noise                 | ≤75dB   |
| Elevation             | 3000m (Derating above 2000m)  |
| Display               | APP   |
| Fire Protection       | Aerosol, Water fire system, Multi-sensor/Water ingress, Audible&Visual alarm, Explosion-proof ventilation |
| Communication         | Ethernet/4G/RS485/Bluetooth   |
| Certification         | UN38.3  |
| Depth of Discharge    | 95%   |
| Cycle Life*           | ≥8000 Cycles /10 years  |
| Compatible Inverters  | Megarevo/Solis/SOSEN/SOLINTEG   |

\* Operating conditions: 0.2C Charging & Discharging, @25°C, 95% DOD



# DH100F

DH100F features an integrated multifunctional design that supports PV access and on-grid to off-grid switching. It encompasses the whole scenario of photovoltaic, storage and diesel generator. The single cabinet capacity of 71/86/100kWh optional, allowing for customization based on electricity consumption needs. This system is ideal for office parks, commercial buildings, charging stations, and other small industrial and commercial applications.



## Features and Advantages

### Flexible Expansion

Single cabinet capacity of 71/86/100kWh optional, supports both on-grid and off-grid AC parallel operation

### IP55+C3

Fearless of outdoor installation, strong environmental adaptability

### Full-scenario

Supporting PV access, on-grid to off-grid switching, covering the whole scenario of photovoltaic, storage and diesel generator

### Safe & Reliable

Three-level fire detection + active exhaust + passive explosion-proof design to eliminate hidden hazards and ensure safe operation

### Simple O&M

Modular design, rear outlet and lower outlet mode, easy to install, easy to layout, easy to maintain

## Specification

| Model                          | DH100F-C70   | DH100F-C80     | DH100F-C100    |
|--------------------------------|--|----------------|----------------|
| <b>Battery</b>                 |  |                |                |
| Battery Type                   | LiFePO <sub>4</sub>  |                |                |
| Battery Capacity               | 280Ah  |                |                |
| Rated Current                  | 140A   |                |                |
| Max. Current                   | 160A   |                |                |
| PACK Configuration             | 1P16S*5  | 1P16S*6        | 1P16S*7        |
| Voltage Range                  | 232~288Vdc   | 278.4~345.6Vdc | 324.8~403.2Vdc |
| Nominal Capacity               | 71kWh  | 86kWh          | 100kWh         |
| <b>On-grid AC Side</b>         |  |                |                |
| Rated Power                    | 35kW   | 40kW           | 50kW           |
| AC Maximum Current             | 60A  | 74A            | 86A            |
| AC Rated Voltage               | 400Vac   |                |                |
| Wiring Method                  | 3P4L+PE  |                |                |
| Frequency                      | 50Hz/60Hz  |                |                |
| Power Factor                   | 0.8 (Leading)~0.8 (Lagging)                                      |                |                |
| THDi                           | < 5% (Rated power)   |                |                |
| <b>Off-grid AC Side</b>        |  |                |                |
| Rated Power                    | 35kVA  | 40kVA          | 50kVA          |
| AC Maximum Current             | 60A  | 74A            | 86A            |
| AC Rated Voltage               | 400Vac   |                |                |
| Wiring Method                  | 3P4L+PE  |                |                |
| Frequency                      | 50Hz/60Hz  |                |                |
| Unbalanced Load                | 100%   |                |                |
| THDv                           | < 3% (Liner load)  |                |                |
| <b>Photovoltaic (Optional)</b> |  |                |                |
| Max. Input Power               | 25kW*2   | 30kW*2         | 35kW*2         |
| Max. Input Current             | 80A*2  |                |                |
| Short-circuit Current          | 100A   |                |                |
| Max. Voltage                   | 1000Vdc  |                |                |
| Input Voltage Range            | 300~1000Vdc  | 350~1000Vdc    | 400~1000Vdc    |
| Start-up Voltage               | 375Vdc   | 440Vdc         | 500Vdc         |
| MPPT Path                      | 2  |                |                |
| <b>System</b>                  |  |                |                |
| Weight                         | 1500±100kg   | 1600±100kg     | 1700±100kg     |
| Dimension (W/D/H)              | 1200/1205/2260mm   |                |                |
| Max. Efficiency                | 84%  |                |                |
| Air Conditioner Power          | 2kW (Cooling), 1kW (Heating)                                     |                |                |
| Operating Temperature          | -20~50°C (Derating above 45°C)                                   |                |                |
| Operating Humidity             | 0~95%RH (Non-condensing)   |                |                |
| Ingress protection             | IP55   |                |                |
| Anti-corrosion Grade           | C3   |                |                |
| Cooling Method                 | Air cooling  |                |                |
| Noise                          | ≤70dB  |                |                |
| Elevation                      | 3000m (Derating above 2000m)                                     |                |                |
| Display                        | Touch screen   |                |                |
| Fire Protection                | Aerosol, Multi-sensor/Water ingress, Explosion-proof ventilation |                |                |
| Communication                  | Ethernet/4G/RS485  |                |                |
| Certification                  | CE, LVD, UN38.3  |                |                |

# DH200F

The DH200F has a multi-functional, all-in-one design that supports flexible expansion, PV integration and grid/off-grid switching. It supports an AC parallel connection of up to 12 units, reaching a capacity of 2.58 MWh. The DC-coupled photovoltaic system enhances solar efficiency and reduces costs, and the unit is equipped with STS. The switching time between on-grid and off-grid is less than 20 ms, ensuring a stable power supply, and it provides peak shaving, grid demand response and backup power services, improving off-grid energy self-sufficiency.



## Features and Advantages

### Flexible Expansion

Maximum support for 12 machines in AC parallel, expandable to 2.58MWh; reserved DC expansion interface.

### Stabilized Power Supply

Equipped with intelligent and efficient STS, the off-grid switching time is less than 20 ms

### Safe & Reliable

Three-level fire detection, explosion-proof ventilation design, combined aerosol and water fire suppression for dual protection

### PV DC Coupling

DC-coupled PV, improving power generation efficiency, reducing system costs

### Flexible Wiring

Multiple wiring options reduce site constraints and lower installation difficulty/cost

### Full-scenario

Supports AC-coupled integration with PV, diesel generators, EV chargers, and all energy scenarios

## Specification

| Model                              | DH200F  |
|------------------------------------|---|
| <b>Battery</b>                     |   |
| Battery Type                       | LiFePO <sub>4</sub>   |
| Battery Capacity                   | 280Ah   |
| PACK Configuration                 | 1P16S*15  |
| Rated Current                      | 140A  |
| Max. Current                       | 160A  |
| Voltage Range                      | 672~864Vdc  |
| Nominal Capacity                   | 215kWh  |
| <b>On-grid AC Side</b>             |   |
| Rated Power                        | 100kW   |
| AC Maximum Current                 | 167A  |
| AC Rated Voltage                   | 400Vac  |
| Wiring Method                      | 3P4L+PE   |
| Frequency                          | 50Hz/60Hz   |
| Power Factor                       | 1(Leading)~1(Lagging)   |
| THDi                               | ≤3% (Rated power)   |
| Max. Number Of Parallel Expansions | 12  |
| <b>Off-grid AC Side (Optional)</b> |   |
| Rated Power                        | 100kVA  |
| AC Rated Voltage                   | 400Vac  |
| AC Maximum Current                 | 167A  |
| Wiring method                      | 3P4L+PE   |
| Frequency                          | 50Hz/60Hz   |
| Unbalanced Load                    | 100%  |
| THDv                               | < 3% (Liner load)   |
| Max. Number Of Parallel Expansions | 5   |
| <b>Photovoltaic (Optional)</b>     |   |
| Max. Input Power                   | 50kW*3  |
| Max. Input Current                 | 100A*3  |
| Short-circuit Current              | 150A  |
| Max. Voltage                       | 670Vdc  |
| Input Voltage Range                | 200-670Vdc  |
| Start-up Voltage                   | 250Vdc  |
| MPPT Path                          | 3   |
| <b>System</b>                      |   |
| Weight                             | 2800±100kg  |
| Dimension (W/D/H)                  | 1845/1190/2250mm  |
| Max. Efficiency                    | 87%   |
| Air Conditioner Power              | 3kW (Cooling), 1kW (Heating)  |
| Operating Temperature              | -20~50°C(Derating above 45°C)   |
| Operating Humidity                 | 0~95%RH (Non-condensing)  |
| Ingress protection                 | IP55  |
| Anti-corrosion Grade               | C3  |
| Cooling method                     | Air cooling   |
| Noise                              | ≤70dB   |
| Elevation                          | 3000m (Derating above 2000m)  |
| Display                            | Touch screen  |
| Fire Protection                    | Aerosol, Water fire system, Multi-sensor/Water ingress, Audible&Visual alarm, Explosion-proof ventilation |
| Communication                      | Ethernet/4G/RS485   |
| Certification                      | CE, LVD, UN38.3   |



# DH200Y

DH200Y is the first high-security, high-energy density, DC1000V liquid-cooled all-in-one energy storage system designed for grid-connected projects, including office parks, commercial buildings, and charging stations. Single cabinet capacity of 232kWh, maximum support for 10 machines in parallel, expandable to 2.3MWh. With a 9% increase in energy density and a 10% reduction in floor space. The higher energy density provides superior options for energy storage solutions.



## Features and Advantages

### Flexible Expansion

Maximum support for 10 machines in AC parallel, expandable to 2.3MWh; reserved DC expansion interface.

### Ultra Safe

Three-level fire detection + active exhaust + passive explosion-proof design to eliminate hidden hazards and ensure safe operation.

### Ultra-high Level Protection

PACK+PCS IP65, C3/C5 Anti-corrosion grade optional, handles harsh environments such as high humidity and salt spray corrosion with ease.

### Economical

Occupies an area of 1.58m<sup>2</sup>, energy density up to 147kWh/m<sup>2</sup>, low installation costs

### Smart Temperature Control

PACK smart liquid cooling+PCS smart Air cooling, cluster-level temperature difference  $\leq 3^{\circ}\text{C}$

### Simple O&M

Modular design, pre-maintenance solution for easy access and O&M, and support for online monitoring and O&M

## Specification

| Model                              | DH200Y   |
|------------------------------------|--|
| <b>Battery</b>                     |  |
| Battery Type                       | LiFePO <sub>4</sub>  |
| Battery Capacity                   | 280Ah  |
| PACK Configuration                 | 1P52S*5  |
| Rated Current                      | 140A   |
| Max. Current                       | 160A   |
| Voltage Range                      | 754~936Vdc   |
| Nominal Capacity                   | 232kWh   |
| <b>On-grid AC Side</b>             |  |
| Rated Power                        | 100kW  |
| AC Maximum Current                 | 145A   |
| AC Rated Voltage                   | 400Vac   |
| Wiring Method                      | 3P4L+PE  |
| Frequency                          | 50Hz   |
| Power Factor                       | 1(Leading)~1(Lagging)  |
| THDi                               | $\leq 3\%$ (Rated power)   |
| Max. Number Of Parallel Expansions | 10   |
| <b>System</b>                      |  |
| Weight                             | 2600±100kg   |
| Dimension (W/D/H)                  | 1055/1475/2400mm   |
| Max. Efficiency                    | 90%  |
| Liquid-cooling Power               | 2.5kW (Cooling), 2kW (Heating)                                   |
| Operating Temperature              | -20~50°C (Derating above 45°C)                                   |
| Operating Humidity                 | 0~95%RH (Non-condensing)   |
| Ingress Protection                 | IP55   |
| Anti-corrosion Grade               | C3(Optional C5)  |
| Cooling Method                     | PACK Liquid-cooling + PCS Air-cooling                            |
| Noise                              | $\leq 75\text{dB}$   |
| Elevation                          | 3000m (Derating above 2000m)                                     |
| Display                            | Touch screen   |
| Fire Protection                    | Aerosol, Multi-sensor/Water ingress, Explosion-proof ventilation |
| Communication                      | Ethernet/4G/RS485  |
| Certification                      | CQC, CE, TUV, LVD, UN38.3  |

# DH800Y



DH800Y is a new-generation fully liquid-cooled, modular energy storage system featuring a 690V medium-voltage grid connection solution. Each cabinet has a capacity of up to 836 kWh and achieves system efficiency of 90%. Fully liquid-cooled design, enabling full-capacity operation at ambient temperatures up to 50°C without derating. This system offering an ultra-high AC output power of 4.2 MW and a substantial DC storage capacity of 16 MWh to support a wide range of applications.

## Features and Advantages

### Modular & Flexible

- 6-unit parallel system fits in a 20ft container (All-in-one 5MWh solution) footprint
- Modular design, expansion on demand, pre-commissioned AC/DC integrated delivery

### Standardized Delivery & O&M

- Standard container transport, transferred by forklift/crane
- Plug-and-play modular installation, 30% faster project deployment

### Safety & Reliability

- 3+2 safety protection, PACK/cluster/water fire suppression + explosion-proof venting design, 2-hour flame-retardant enclosure
- Smart dehumidification, Reduces dew point to prevent condensation
- Full liquid cooling, 15-year service life

### IRR Boost up to 12%

- High energy density, 35% reduction in land costs
- Modular design, 35% lower transportation costs
- AI-driven O&M, 20% lower maintenance costs

## Specification

| Model                              | DH800Y-2H  | DH800Y-4H   |
|------------------------------------|--|---|
| Battery                            |  |   |
| Battery Type                       | LFP (LiFePO <sub>4</sub> )   |   |
| Battery Capacity                   | 314Ah  |   |
| PACK Configuration                 | 1P416S*2   |   |
| Rated Current                      | 157A   |   |
| Max. Current                       | 180A   |   |
| Voltage Range                      | 1164.8~1497.6Vdc   |   |
| Nominal Capacity                   | 836kWh   |   |
| On-grid AC Side                    |  |   |
| Rated Power                        | 420kW  | 210kW   |
| AC Maximum Current                 | 360A   | 180A  |
| AC Rated Voltage                   | 690Vac   | 690Vac  |
| Wiring Method                      | 3P3W+PE  | 3P3W+PE   |
| Frequency                          | 50Hz/60Hz  | 50Hz/60Hz   |
| Power Factor                       | 1(Leading)~1(Lagging)  | 1(Leading)~1(Lagging)   |
| THDi                               | ≤3% (Rated power)  | ≤3% (Rated power)   |
| Max. Number Of Parallel Expansions | 10   | 20  |
| System                             |  |   |
| Weight                             | Battery cabinet: Approx.6800kg<br>Electrical cabinet: Approx.1700kg  | Battery cabinet: Approx.6800kg<br>Electrical cabinet: Approx.1600kg |
| Dimension (W/D/H)                  | Battery cabinet: 1000/2438/2350mm<br>Electrical cabinet: 1000/2438/965mm   |   |
| Max. Efficiency                    | 90%  |   |
| Operating Temperature              | -30~50°C   |   |
| Operating Humidity                 | 0~95%RH (Non-condensing)   |   |
| Ingress Protection                 | IP55   |   |
| Anti-corrosion Grade               | C4   |   |
| Cooling Method                     | Fully liquid-cooling   |   |
| Noise                              | ≤75dB  |   |
| Elevation                          | 3000m (Derating above 2000m)   |   |
| Display                            | APP  |   |
| Fire Protection                    | Aerosol, Water fire system, Multi-sensor/Water ingress, Audible&Visual alarm, Explosion-proof ventilation, Explosion Relief (Optional) |   |
| Communication                      | Ethernet/4G/RS485/Bluetooth  |   |
| Standard                           | CQC, CE, UL9540A, UN38.3   |   |





B229-1H



C1200-DC-EN



EV1200-S-CCS2



EV1200-D-CCS2



# StorCharge-4C

StorCharge-4C MW-level storage-charging series adopting a modular distributed design, it can be flexibly paired with multi-specification ultra-fast charging piles and fast charging piles to enable "charge-and-go" operation. It meets diverse charging demands for commercial vehicles, heavy-duty trucks, large electric buses, construction machinery, and specialty vehicles.



E-taxi



E-vehicle



E-bus



Transport truck



E-truck

## Features and Advantages



### Ultra-Fast Charging

Up to 4C output, meeting MW-level ultra-high-power charging demands for heavy-duty applications.



### PV-Storage-Charging Integration

Enables solar PV coupling and DC-side storage integration for intelligent peak shaving, eliminating grid upgrade requirements.



### Extreme Performance

Liquid-cooled thermal management for superior environmental adaptability, DC-coupled architecture delivers up to 6% higher system efficiency



### Low Cost

High-rate modular design reduces footprint and grid connection costs, Universal terminal compatibility maximizes ROI across all vehicle types

## Specification

| Model                     | B229-1H   |
|---------------------------|---|
| Battery                   |   |
| Battery Type              | LFP (LiFePO <sub>4</sub> )  |
| Battery Capacity          | 320Ah   |
| PACK Configuration        | 1P32S*7   |
| Max. Charging Current     | 320A  |
| Rated Discharging Current | 640A  |
| Max. Discharging Current  | 1280A   |
| Voltage Range             | 649.6~806.4Vdc  |
| Nominal Capacity          | 229kWh  |
| On-grid AC Side           |   |
| Rated Power               | 230kW   |
| AC Maximum Current        | 396A  |
| AC Rated Voltage          | 400Vac  |
| Wiring Method             | 3P3L+PE   |
| Frequency                 | 50Hz/60Hz   |
| Power Factor              | 1(Leading)~1(Lagging)   |
| THDi                      | ≤1.5% (Rated power)   |
| Photovoltaic (Optional)   |   |
| Max. Input Power          | 50kW*3  |
| Max. Input Current        | 85A*3   |
| Short-circuit Current     | 110A  |
| Input Voltage Range       | 200~600Vdc  |
| Start-up Voltage          | 250Vdc  |
| MPPT Path                 | 3   |
| System                    |   |
| Weight                    | 2800±100kg  |
| Dimension (W/D/H)         | 1895/1520/2360mm  |
| Max. Efficiency           | 90% (0.5C)  |
| Operating Temperature     | -20~50°C (Derating above 45°C)  |
| Operating Humidity        | 0~95%RH (Non-condensing)  |
| Ingress Protection        | IP55  |
| Anti-corrosion Grade      | C3(Optional C4)   |
| Cooling Method            | PACK Liquid-cooling, PCS+DC/DC Air-cooling  |
| Noise                     | ≤75dB   |
| Elevation                 | 3000m (Derating above 2000m)  |
| Display                   | Touch screen  |
| Fire Protection           | Aerosol, Water fire system, Multi-sensor/Water ingress, Audible&Visual alarm, Explosion-proof ventilation |
| Communication             | Ethernet/4G/RS485   |

| Model                 | C1200-DC-EN   |
|-----------------------|---|
| Charging Stack        |   |
| Total Power           | 1200kW  |
| Input Voltage Range   | 300~900Vdc  |
| Max. Input Current    | 2000A   |
| Output Voltage Range  | 200~1000Vdc   |
| Max. Output Current   | 800A*2, 1500A*1   |
| Output Voltage Error  | ±0.5%   |
| System                |   |
| Weight                | Approx. 1.8T  |
| Dimension (W/D/H)     | 2000/1100/2150mm  |
| Max. Efficiency       | 98%   |
| Operating Temperature | -30~50°C  |
| Operating Humidity    | 0~95%RH (Non-condensing)  |
| Ingress Protection    | IP55  |
| Anti-corrosion Grade  | C3 (Optional C4)  |
| Cooling Method        | Liquid-cooling  |
| Elevation             | 3000m (Derating above 2000m)  |
| Output Protection     | Over/Under voltage, Over-current, Short-circuit, Over-temperature, Communication, Anti-reverse current protection |

| Model                 | EV1200-S-CCS2                         | EV1200-D-CCS2 |
|-----------------------|---------------------------------------|---------------|
| Charging Pile         |                                       |               |
| Max. Charging Power   | 1200kW                                | 1200kW        |
| Output Voltage Range  | 200~1000Vdc                           | 200~1000Vdc   |
| Max. Output Current   | 1500A                                 | 800A*2        |
| Output Voltage Error  | ±0.5%                                 | ±0.5%         |
| Weight                | 180kg                                 | 190kg         |
| Dimension (W/D/H)     | 600/430/1680mm                        |               |
| Max. Efficiency       | 97%                                   |               |
| Operating Temperature | -30~50°C                              |               |
| Operating Humidity    | 0~95%RH (Non-condensing)              |               |
| Ingress Protection    | IP55                                  |               |
| Anti-corrosion Grade  | C3 (Optional C5)                      |               |
| Cooling Method        | Liquid-cooling                        |               |
| Elevation             | 4000m (Derating above 2000m)          |               |
| Output Protection     | Over-voltage, Over-current protection |               |



# DH2150Y-BC

The DH2150Y-BC mobile liquid-cooled storage and charging integrated container features a standard 20-foot high-cube design, with a total system capacity of 2.15MWh. It is equipped with a self-developed storage and charging operation management platform, it significantly enhances charging convenience and flexibility, enabling plug-and-play deployment to solve the "last-mile" charging challenge.



## Features and Advantages

### Integrated Storage&Charging

DC coupled of ESS and charging, highly compact design to overcome parking space limitations.

### Cluster-Level Management

Independent management prevents system-wide downtime due to single unit failures and mitigates battery inconsistency issues.

### Ultimate Safety

PACK/cluster/water fire suppression +venting design+3-stage circuit breaking

### Smart&High Efficiency

Dynamically distributes charging power, combined with AI-powered cloud platform management for precise control, reducing costs and improving efficiency.

### Emergency Backup Power

Supports off-grid operation with plug-and-play deployment, meeting temporary power supply and distributed site requirements.

### Simple O&M

Modular design for easy installation, layout, and servicing, and support for online monitoring and O&M

## Specification

| Model                          | DH2150Y-BC  |
|--------------------------------|---|
| Battery                        |   |
| Battery Type                   | LFP (LiFePO <sub>4</sub> )  |
| Battery Capacity               | 280Ah   |
| Battery Configuration          | 1P240S*10   |
| Rated Current                  | 140A*10   |
| Max. Current                   | 160A*10   |
| Voltage Range                  | 696-864Vdc  |
| Nominal Capacity               | 2150kWh   |
| Charging Stack                 |   |
| Total Power of Charging Stack* | 760kW   |
| Max. Power of Single Gun       | 150kW   |
| Max. Current of Single Circuit | 250A  |
| Output Voltage Range           | 200-1000Vdc   |
| Output Voltage Error           | ±0.5%   |
| Number of Charging Gun         | 6   |
| Length of Gunline              | 5m  |
| Charging Standard              | European standard DC fast charging CCS2 (Meets DIN 70121 and ISO 15118 protocols)   |
| Charging Method                | Swipe, Scan, NFC, APP   |
| HMI                            | 7-inch Touch screen   |
| System                         |   |
| Dimension (W/D/H)              | 6058/2438/2896mm (High Cube)  |
| Weight                         | Approx. 28T (TBD)   |
| Max. Efficiency                | ≥97% (TBD)  |
| Temperature                    | -20~50°C (Derating above 45°C)  |
| Humidity                       | 0-95%RH (Non-condensing)  |
| Ingress Protection             | IP55  |
| Anti-corrosion Grade           | C3  |
| Cooling Method                 | PACK Liquid-cooling, DC/DC Air-cooling  |
| Elevation                      | 3000m (Derating above 2000m)  |
| Fire Protection                | Aerosol, Water fire system, Multi-sensor/Water ingress, Audible&Visual alarm, Explosion Relief  |
| Output Protection              | Emergency stop, Access control, Water ingress, Over/Under voltage, Overload, Short circuit, Ground, High/Low temperature, Lightning protection, Fire protection |

\* When all 6 charging guns are in use, the system prioritizes the earliest connected: 4 at 150kW max and 2 at 80kW.

| Model                         | EPCS1050-EN             |
|-------------------------------|-------------------------|
| AC                            |                         |
| Operating Power Requirements* | 230Vac, 50Hz/60Hz, ≥2kW |
| Rated Power                   | 100kW*10                |
| AC Maximum Current            | 167A*10                 |
| AC Rated Voltage              | 400Vac                  |
| Wiring Method                 | 3P3L+PE                 |
| Frequency                     | 50Hz/60Hz               |
| THDi                          | ≤3% (Rated power)       |
| DC Out                        |                         |
| Rated Power                   | 100kW*10                |
| Rated Current                 | 140A*10                 |
| Output Voltage Range          | 615-950Vdc              |
| Structure                     |                         |
| Dimension (W/D/H)             | 1515/1200/2250mm        |
| Weight                        | Approx. 1400kg (TBD)    |
| Max. Efficiency               | 98.50%                  |
| Cooling Method                | Air-cooling             |

\* PCS cabinets need to be connected to the auxiliary power supply separately.

## Application Cases

---

---

Dyness has provided safe, reliable, and high-quality products and services to over 500,000 users





# C&I Application Cases



• China DH200Y



• Brazil PowerRack HV4



• Hungary DH200Y



• Thailand STACK100



• Bulgaria DH200F



• Germany DH200F



# After-sales Service

Online + offline comprehensive operation and maintenance service system

+86 400 666 0655



## Offline

8 Supporting Languages  
13 Service Centers  
Worldwide Service Locations



## Online

Sophisticated Online Service Platform  
200+ Online Service Engineers  
<https://support.dyness.com>



## Professional

Localized technical support and customized service solutions.



## Efficient

After-sales service response time is less than 1 hour.



## Responsible

Customer centricity and 98% customer satisfaction

