

DYN^{ESS}



Dyness Digital Energy Technology Co., LTD.

Tel : +86 400 666 0655

Web : www.dyness.com

E-mail : sales@dyness-tech.com

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

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DYN^{ESS}

Energy Storage System Solutions



Central Asia & CIS

Discover Your Nature

Catalogue

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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

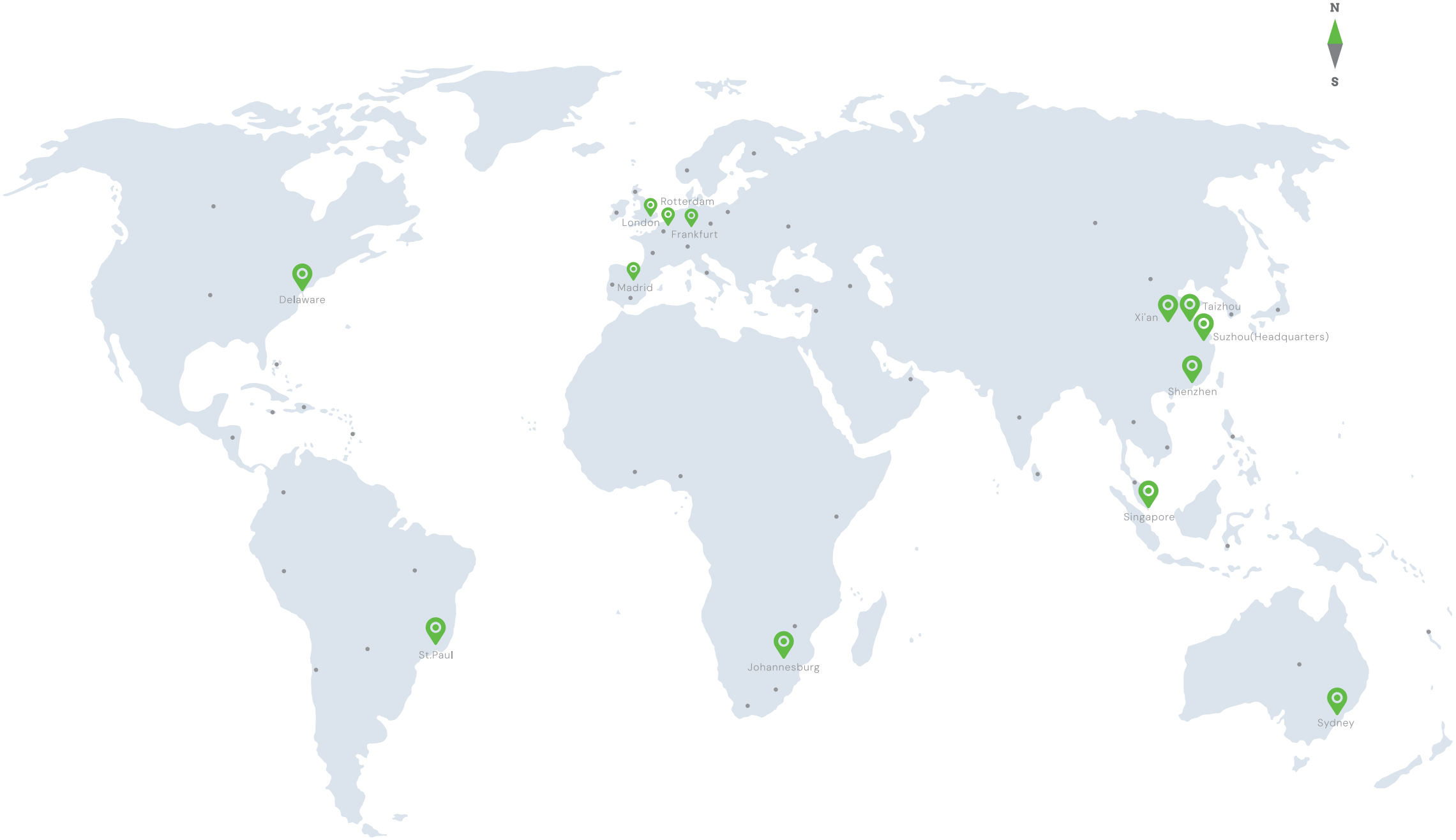
The Global Pioneering Energy Storage Solutions Innovator

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

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● Main Shipping Areas

📍 Branches



13

Global Branches

2

Production Centres

2

R&D Centres

3GWh

Annual Production Capacity

100+

Global Markets

500,000+

Users

Residential Energy Storage Products



Ultra Safe



Flexible Expansion



Easy Installation



Smart Management



Perfect Compatibility



DL5.0C

DL5.0C is designed for residential and small commercial applications, with up to 50 units in parallel and an energy range from 5.12 kWh to 256 kWh. It supports 1C discharge rate. With high cycle times and a long lifespan, it ensures worry-free electricity consumption.



Features and Advantages

Flexible Expansion

Up to 50 units in parallel,
5.12kWh--256kWh capacity

Automatic Self-Heating

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

Long-term Reliability

LFP cells, 6000+ cycles

1C Discharge

Simultaneously supplying power to multiple
loads, no need to worry about power outages

Easy Installation

Support wall-mounted, floor-mounted, stacked and
rack-mounted installations, high space utilization

All-round Safety

Short-circuit lockout, surge-resistant,
safe and reliable

Specification

Model	DL5.0C
Battery Type	LiFePO ₄
Nominal Battery Energy	5.12 kWh
Nomina Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recommended Charge & Discharge C Rate	0.5C
Maximum Discharge C rate	1C
Recommended Charge/Discharge Current	50A
Max. Charge/Discharge Current	Charge 75A Discharge 100A
Peak Discharge Current	110A(15s)
Depth of Discharge (DOD)	90%
Net Weight	49.9kg
Dimension[W/D/H](mm)	558/545/150
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life *	≥6000 Cycles
Protection Level	IP20
WIFI Module	Optional
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CEI-021/GOST-R
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE/Apsystem etc.

* Test conditions: 0.2C Charging & Discharging, @25°C, 90% DOD

DL5.0C Pro

DL5.0C Pro is suitable for residential and small commercial and industrial scenarios, with up to 50 units in parallel and an energy range from 5.12 kWh to 256 kWh. High cycle times and security ensure users' electricity freedom and safety.



Features and Advantages

Flexible Expansion

Up to 50 units in parallel,
5.12kWh--256kWh capacity

Automatic Self-heating

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

Easy Installation

Support wall-mounted, floor-mounted
installations, high space utilization

1C Discharge

Simultaneously supplying power to multiple
loads, no need to worry about power outages

Ultra Safe

Intelligent fire extinguishing system, detects
and extinguishes fire in 5s(optional)

Smart Management

Real-time system monitoring, remote
control, OTA updates

Specification

Model	DL5.0C Pro
Battery Type	LiFePO ₄
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recommended Charge & Discharge C Rate	0.5C
Maximum Discharge C Rate	1C
Recommended Charge/Discharge Current	50A
Max. Charge/Discharge Current	Charge 75A Discharge 100A
Peak Discharge Current	120A@10min
Depth of Discharge (DOD)	95%
Net Weight	46kg
Dimension[W/D/H]	488/515/150mm
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
WIFI Module	Built-in WIFI module; APP OTA function
Cycle Life *	≥6000 Cycles
Protection Level	IP20
Active fire protection system	Optional Aerosol fire extinguisher
Expansion	Up to 50 units in parallel
Pros	Can be used in both off-grid and hybrid setups, compact design
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CE-RED/CEI 0-21
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE/Apsystem etc.

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

Powerbox Pro

Powerbox Pro is a low-voltage product designed for household energy storage scenarios, supporting up to 50 units in parallel and a 10.24kWh--512kWh energy coverage. High protection level, high safety performance, easy installation, and stylish design to make it perfectly fit for the modern home.



Features and Advantages

- Flexible Expansion**
Up to 50 units in parallel,
10.24kWh--512kWh capacity
- Easy Installation**
Support wall-mounted, floor-mounted
installations, high space utilization
- IP65 Protection**
Fearless of outdoor installation, strong
environmental adaptability
- Battery Equalization**
Supports for mixing modules under
different SOC to ensure battery life
- All-round Safety**
Short-circuit lockout, surge-resistant,
safe and reliable

Specification

Model	Powerbox Pro
Battery Type	LiFePO ₄
Nominal Battery Energy	10.24 kWh
Operating Voltage	44.8~57.6V
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Nominal Power	5.12kW
Peak Power	10.24kW
Recommended Charge & Discharge C Rate	0.5C
Recommended Charge/Discharge Current	100A
Recommended Depth of Discharge (DOD)	90%
Net Weight	99.3kg
Dimension[W/D/H]	555/210/928 mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
WiFi Module	Optional
Cycle Life *	≥6000 Cycles
Protection Level	IP65
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC62040/UKCA/CEC
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE/Apsystem etc.

* Test conditions: 0.2C Charging & Discharging. @25°C, 90% DOD

PowerBrick

PowerBrick is a low-voltage product designed for household energy storage scenarios with a stylish and elegant appearance. It uses a high-capacity 280Ah battery to support 50 parallel units with a capacity range from 14.3kWh to 716.8kWh. It provides a highly safe, reliable, intelligent and friendly experience.



Features and Advantages

Flexible Expansion

Up to 50 units in parallel,
14.3kWh--716.8kWh capacity

Ultra Safe

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

Long-term Reliability

280Ah LFP cells, 8000+ cycles,
10 years warranty

No Black Out

Maximum discharge current: 200A, simulta-
neously supplying power to multiple loads

Easy Installation

60% less volume, 25% less weight, easy
to move by one person with wheels

Automatic Self-heating

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

Specification

Model	PowerBrick
Battery Type	LiFePO ₄
Nominal Battery Energy	14.336kWh
Nominal Voltage/Capacity	51.2V/280Ah
Recommended Charge/Discharge Current	140A (0.5C)
Max. Charge Current	200A
Max. Discharge Current	200A
Peak Discharge Current	300A (2mins, 25°C)
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life*	≥8000 cycles / 10 Years
Protection Level	IP20
Net Weight	114kg
Dimension[W/D/H]	435/233/857mm (No wall-mounted bracket)
Regulating wheel(4pcs)	1kg,80/80/80mm(optional)
Top cover	2kg,422/232/60mm(optional)
Maximum Parallel Modules	50
Charging Temp. Range	0~55°C/-20~55°C(optional)
Discharging Temp. Range	-20~55°C
WIFI Module	Built-in WIFI module; APP OTA function
Fire Protection System	Built-in aerosol fire extinguisher
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/GOST-R/CEI O-21
Compatible Inverters	SMA/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE/Apsystem etc.

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

PowerBrick Pro

PowerBrick pro is a low-voltage product designed for household energy storage scenarios. It has a high IP65 protection rating and supports indoor and outdoor installation. It uses a high capacity 280Ah battery to support 50 parallel units with a capacity range from 14.3kWh to 716.8kWh, easily satisfying home power needs.



Features and Advantages

- Fast Charge/Discharge**
Maximum discharge current: 200A, simultaneously supplying power to multiple loads
- Automatic Self-heating**
-20°C to 55°C operating temperature (optional)
- Long-term Reliability**
280Ah LFP cells, 8000+ cycles, 10-year warranty
- Ultra Safe**
Intelligent fire extinguishing system, detects and extinguishes fire in 5s
- Easy Installation**
easy to move by one person with wheels(optional)
- IP65 Protection**
Fearless of outdoor installation, strong environmental adaptability

Specification

Model	PowerBrick Pro
Battery Type	LiFePO ₄
Nominal Voltage/Capacity	51.2V/280Ah
Nominal Battery Energy	14.336kWh
Operating Voltage	44.8V~57.6V
Recommended Charge & Discharge C Rate	0.5C
Recommended Charge/Discharge Current	140A
Max. Charge Current	200A
Max. Discharge Current	200A
Peak Discharge Current	300A(2min, 25°C)
Cycle Life*	≥8000 cycles/10 Years
Depth of Discharge (DOD)	95%
Charge Temperature	0°C~55°C/-20°C~55°C(optional)
Discharge Temperature	-20°C~55°C
Protection Level	IP65
Dimension[W/D/H]	435/235/850mm
Net Weight	115kg
Maximum Parallel Modules	50
WIFI Module	Built-in WiFi module, APP OTA
Fire Protection System	Built-in aerosol fire extinguisher
Regulating wheel (4pcs)	1kg,80/80/80 (optional)
Top cover	2kg,422/232/60 (optional)
Communication	CAN/RS485
Certification	UN38.3/IEC62619/CE-EMC/IEC63056
Compatible Inverters	SMA/Schneider/Victron Energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE/Apsystem etc.

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

PowerBrick SC

PowerBrick SC is a low-voltage product designed for household energy storage scenarios with a stylish and elegant appearance. It uses a high-capacity 314Ah battery to support 50 parallel units with a capacity range from 16.07kWh to 803.5kWh. It provides a highly safe, reliable, intelligent and friendly experience. Built-in display screen, check the battery status at any time.



Features and Advantages

Flexible Expansion

Up to 50 units in parallel,
16.07kWh--803.84kWh capacity

Ultra Safe

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

Long-term Reliability

LFP cells, long cycles, 10 years warranty,
maximum discharge current: 200A

Automatic Self-heating

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

Easy Installation

60% less volume, 25% less weight, easy to
move by one person with wheels (optional)

Smart Management

Built-in display screen, check the battery
status at any time. real-time system monitoring,
remote control, OTA updates

Specification

Model	PowerBrick SC
Battery Type	LiFePO ₄
Nominal Battery Energy	16.07kWh
Nominal Voltage/Capacity	51.2V/314Ah
Recommended Charge/Discharge Current	140A
Max. Charge Current	200A
Max. Discharge Current	200A
Peak Discharge Current	300A (2mins, 25°C)
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life *	≥8000 cycles / 10 Years
Protection Level	IP20
Net Weight	116Kg
Dimension[W/D/H]	435/233/857mm (No wall-mounted bracket)
Regulating wheel (4pcs)	1kg,80/80/80 (optional)
Top cover	2kg,422/232/60 (optional)
Maximum Parallel Modules	50
Charging Temp. Range	0°C~55°C/-20°C~55°C (optional)
Discharging Temp. Range	-20~55°C
WIFI Module	Built-in WIFI module; APP OTA function
Fire Protection System	Built-in aerosol fire extinguisher
Certification & Safety Standard	UN38.3/IEC62619(TBD)
Compatible Inverters	Solis/GOODWE/Growatt/SMA/Victron/DEYE/APsystem etc.

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

Commercial and Industrial Energy Storage Products



All-in-one



Safe & Reliable



High Energy Density



All Scenario



Intelligent O&M



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.



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

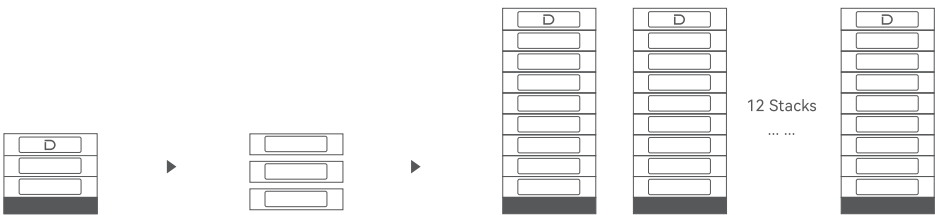
Easy Installation

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

Battery Equalization

Free mixing of modules within three years

Specification



Model	STACK100
Battery Type	LiFePO ₄
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	0~55°C/-20~55°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

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

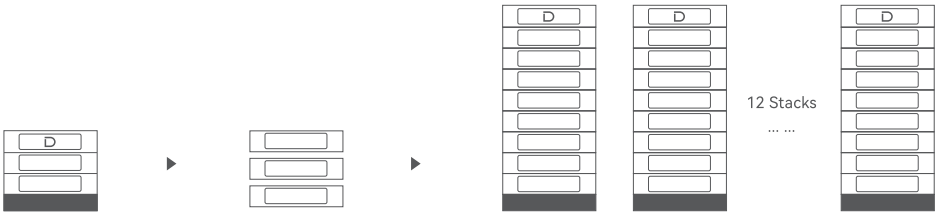
Easy Installation

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 ₄
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+191*n)
Charging Temp. Range	0°C~55°C/-20°C~55°C(Optional)
Discharging Temp. Range	-20~55°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

STACK280

STACK280 is suitable for 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 property



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 fires in 5s

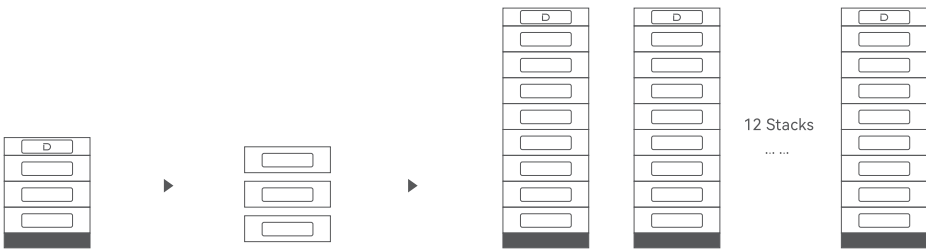
Long Life

LFP cells, 8000+ cycles,
10 years long warranty

Fast Charge/Discharge

Max. continuous charge/discharge
current:200A

Specification



Model	STACK280
Battery Type	LiFePO ₄
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 ^[1]	≥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. ^[2]
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,CE-EMC,IEC62619
Compatible Inverters	Solis/Growatt/Sosen/Solinteg/Atess/Magarevo/Deye 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.

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.
- PV DC Coupling**

DC-coupled PV, improving power generation efficiency, reducing system costs
- Safe & Reliable**

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

Equipped with intelligent and efficient STS, the off-grid switching time is less than 20 ms
- 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
Battery	
Battery Type	LiFePO ₄
Battery Capacity	280Ah
PACK Configuration	1P16S*15
Rated Current	140A
Max. Current	160A
Voltage Range	696~864Vdc
Nominal Capacity	215kWh
On-grid AC Side	
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
Off-grid AC Side (Optional)	
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
Photovoltaic (Optional)	
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
System	
Weight	2800±100kg
Dimension (W/D/H)	1850/1265/2250mm
Max. Efficiency	≥87% (TBD)
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.
- Economical**

Occupies an area of 1.58m², energy density up to 147kWh/m², low installation costs
- Ultra Safe**

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

PACK smart liquid cooling+PCS smart air cooling, cluster-level temperature differences≤ 3°C
- 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.
- 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
Battery	
Battery Type	LFP (LiFePO ₄)
Battery Capacity	280Ah
PACK Configuration	1P52S*5
Rated Current	140A
Max. Current	160A
Voltage Range	754~936Vdc
Nominal Capacity	232kWh
On-grid AC Side	
Rated Power	100kW
AC Maximum Current	145A
AC Rated Voltage	400Vac
Wiring Method	3P4L+PE
Frequency	50Hz
Power Factor	1(Leading)~1(Lagging)
THDi	≤3% (Rated power)
Max. Number Of Parallel Expansions	10
System	
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	≤75dB
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, transfered 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 ₄)	
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 (TBD) Electrical cabinet: Approx.1700kg(TBD)	Battery cabinet: Approx.6800kg (TBD) Electrical cabinet: Approx.1600kg(TBD)
Dimension (W/D/H)	Battery cabinet: 1000/2438/2350mm 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	

Project Cases

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Residential Application Cases



• South Africa DL5.0C



• Australia Powerbox G2



• Philippines Powerbox Pro



• Thailand PowerBrick



• Romania Powerbox G2



• Germany Tower

C&I Application Cases



• China DH200Y



• Brazil PowerRack HV4



• Hungary DH200Y



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