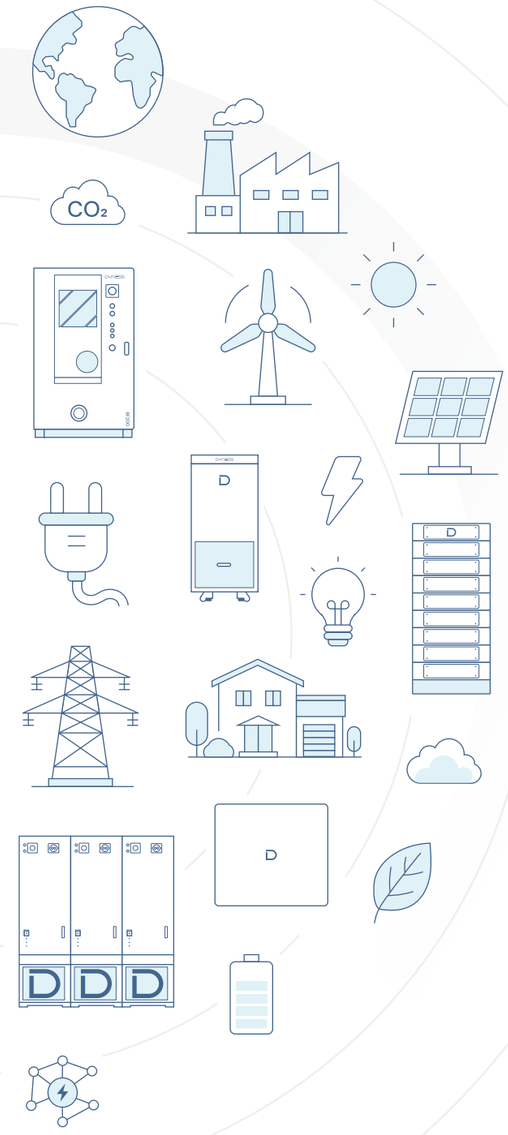
DYNESS



Energy Storage System Solutions

For Residential and C&I

APAC

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This document is exclusively for the following regions only:Southeast Asia, South Asia, Pakistan, Mongolia, South Korea, South Pacific Island Countries

Dynamic Energy, Live Your Way.

2017

- Dyness established

2020

- Established the Taizhou R&D Centre and Manufacturing Facility in China.

2021

- Established a subsidiary in the Netherlands

2022

- Completed the new Taizhou Manufacturing Facility in China.
- Series A funding secured

2023

- Established the Global HQ in Suzhou, China.
- Achieved series B funding and series C funding
- Established a subsidiary in South Africa

2025

- According to Frost & Sullivan, based on residential ESS shipments in 2025, Dyness ranked TOP 5 globally and TOP 4 among Chinese companies

2026

- Officially commenced operations at the Zhuhai Manufacturing Base in China.

Mission

Bringing sustainable energy accessible to everyone.

Vision

Empower every home and business with intelligent energy solutions.

ABOUT DYNESS

Dyness was established in 2017, specializing in the R&D, production, and sales of energy storage systems. The products are distributed across more than 100 countries and regions, delivering premium energy storage solutions to users worldwide. Guided by the brand mission of "Bringing sustainable energy accessible to everyone." Dyness actively advances the brand strategy of "Globalization, Tech Development, and Service Advantages. " Through continuous enhancement of the R&D and innovation capabilities, Dyness consistently introduces market-ready solutions that cover the entire lifecycle of "C&I and residential" energy storage applications. Upholding the brand positioning of becoming "The Leading Global Energy Storage Solutions Provider", Dyness remains dedicated to empowering sustainable energy transformation and contributing meaningfully to global sustainable development.

6 GWh
Annual Production Capacity

33
Global Branches

100+
Global Markets

1,000,000+
System Shipment Volume (units)

GLOBAL FOOTPRINT

3

Production Centres

China: Suzhou, Taizhou, Zhuhai

3

R&D Centres

China: Suzhou, Shenzhen, Xi'an

33

Subbranches

The United States, United Kingdom, Germany, The Netherlands, Spain, Brazil, South Africa, United Arab Emirates (Dubai), Singapore, Australia, China (Xi'an / Taizhou / Shenzhen / Hong Kong).....

SERVICE AND SUPPORT

Full Lifecycle Service System

Pre-Sales

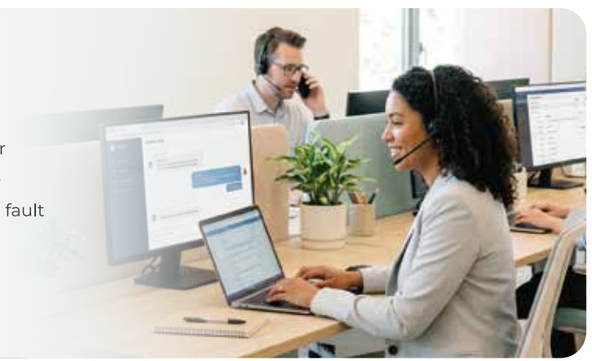
Our professional pre-sales team communicates deeply with customers to understand their needs, providing customized solutions, demonstration and consultation, with on-site investigation if necessary to ensure feasibility.

During Delivery

Our experienced engineers provide unified management of contracts, orders, logistics, and delivery milestones. By strictly controlling progress and quality, we ensure that every project is delivered on time and to the highest standards.

After-Sales

We provide comprehensive support through our localized service teams and global maintenance network. With real-time remote monitoring and fault early-warning systems, we guarantee a rapid response to all customer inquiries.



Localized Service Network

Localized Technical Team

With 14 global service centers covering 14 languages and a team of over 200 online engineers, we provide rapid-response, high-precision technical support to customers worldwide.

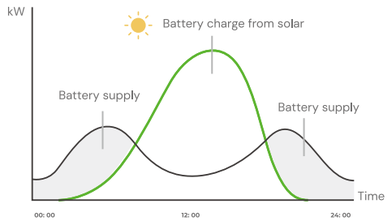
Local Spare Parts Inventory

Our fully stocked local spare parts hubs ensure the rapid supply of necessary components, minimizing system downtime and keeping your business running smoothly.

Localized Warehousing

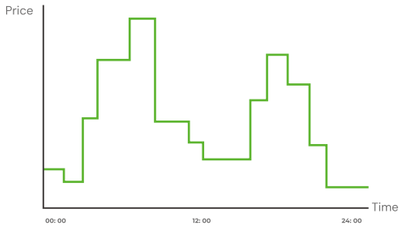
By leveraging local warehouses, we achieve fast product delivery and reduce logistics costs and lead times, while ensuring a stable supply to meet market demands.

EMPOWERING EVERY SCENARIO



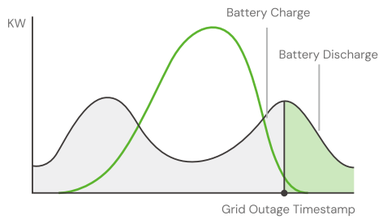
Self-Use

When the PV system generates sufficient electricity, the produced power is prioritized to supply the load. Any excess energy is stored in the battery for later use when the PV system's generation is insufficient to meet the load demand.



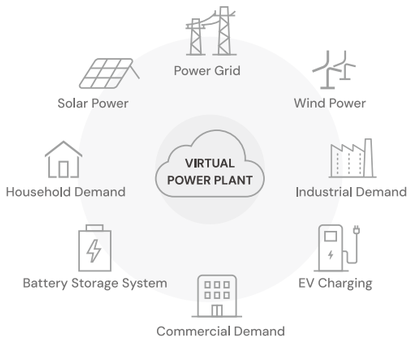
Dynamic Tariff

The energy storage system charges during periods of low electricity prices and discharges during periods of high prices, profiting from the price difference.



Emergency Backup Power

During grid instability or outages, the ESS acts as a reliable backup power source, ensuring seamless electricity for critical household loads. It offers a sustainable alternative to diesel generators, eliminating high fuel costs and environmental pollution.



Virtual Power Plant (VPP)

By participating in Virtual Power Plant (VPP) initiatives, users provide essential ancillary services for grid dispatch, helping to mitigate grid congestion and secure supplementary financial returns

WHY DYNESS RESIDENTIAL ESS

High Efficiency & Reliability

Featuring reliable LFP battery cells with 8000+ cycles for long-term stable performance. Our comprehensive safety system passes the world's most rigorous standards , ensuring maximum protection for your energy assets.

Flexible & Convenient

Modular design, Quick installation. Flexible expansion on demand without worrying about wasted initial investment. High C rate effortlessly handles all your daily electricity needs.

All-Environment Resilience

Engineered to excel in extreme heat, high humidity, freezing cold, and salt mist. From coastal areas to high altitudes and polar climates, we ensure stable performance everywhere.

Intelligent Management

AI-Driven Digital O&M. Enabling 24/7 real-time monitoring and intelligent fault early-warning for more efficient and simplified energy management.

Dynamo AI Assistant

AI-powered support for faster troubleshooting and intelligent customer service.

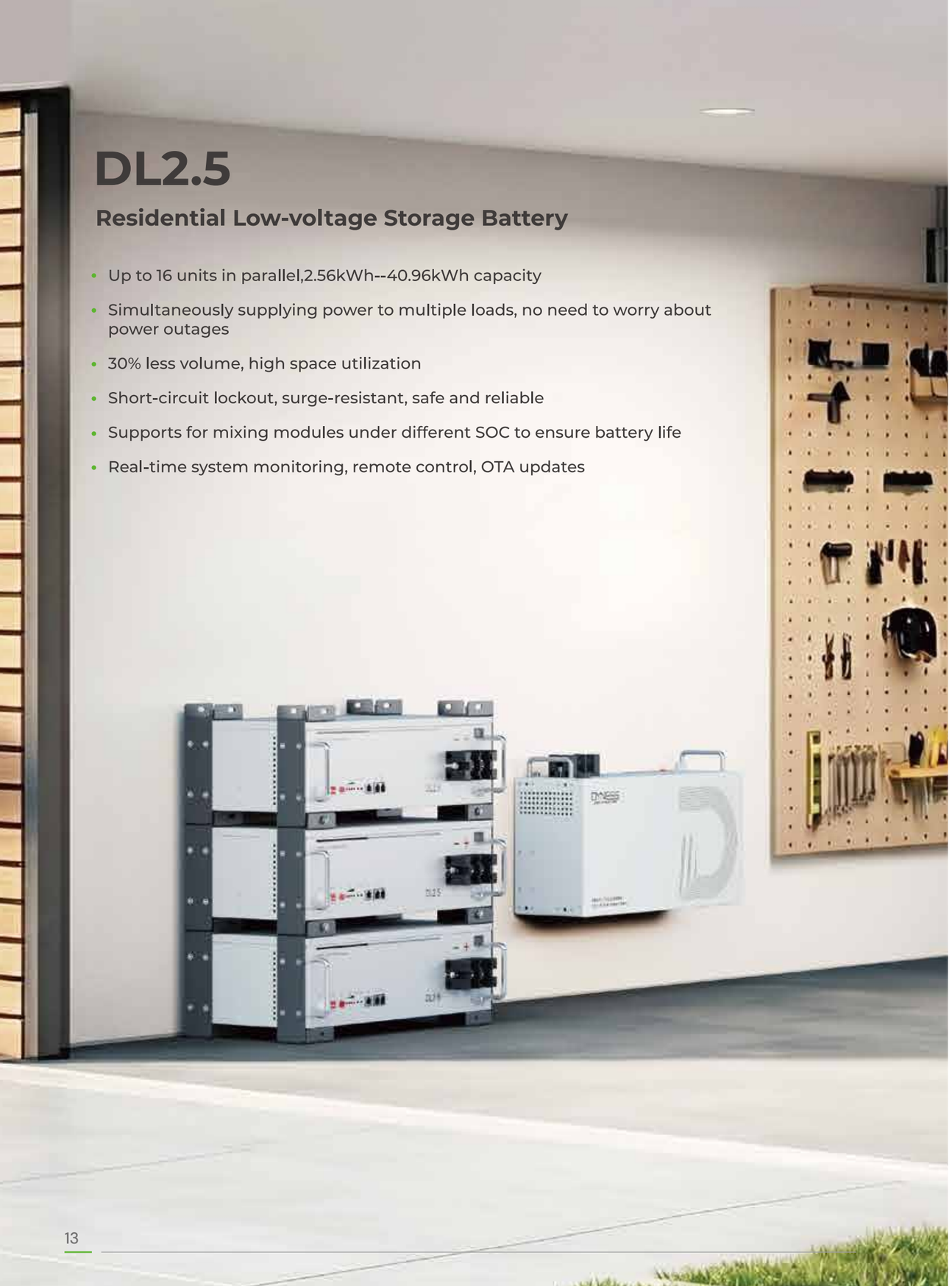
POWER YOUR HOME WITH DYNESS ESS

Low-voltage Residential BESS

DL2.5
DL5.0F
DL5.0C Pro
PowerDepot G2
Powerbox G3
PowerBrick Series
PowerBrick Max20

High-voltage Residential BESS

Tower Pro



DL2.5

Residential Low-voltage Storage Battery

- Up to 16 units in parallel,2.56kWh--40.96kWh capacity
- Simultaneously supplying power to multiple loads, no need to worry about power outages
- 30% less volume, high space utilization
- Short-circuit lockout, surge-resistant, safe and reliable
- Supports for mixing modules under different SOC to ensure battery life
- Real-time system monitoring, remote control, OTA updates

SPECIFICATION

Model	DL2.5
Cell Technology	$LiFePO_4$
Battery Module Capacity	2.56 kWh
Battery Module Voltage	25.6V
Battery Module Capacity	100 Ah
Battery Module Charge Voltage	28.5V
Recommended Charge/Discharge Current	50A
Max. Charge Current	75A
Max. Discharge Current	130A
Depth of Discharge (DOD)	90%
Cycle Life	≥6000 Cycles
Dimension(W*D*H, mm)	481*221*133mm
Communication	CAN/RS485
WiFi Module	Optional
IP Grade	IP20
Weight	23kg
Charging Temp. Range	0°C~+55°C
Discharging Temp. Range	-20°C~+55°C
Compatible Inverters	Steca/Sorotec/Must/Victron/Growatt/SRNE/Dyness
Certification	UN38.3/CE-EMC/IEC62619/ECE R10

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

DL5.0F

Residential Low-voltage Battery

- 5.12kWh--256kWh capacity, with on-demand expansion
- 1C discharge supports higher power loads
- -20°C to 55°C wide operating temperature range (optional)
- Direct cell-to-pack integration eliminates modules for compact efficiency
- Built-in aerosol fire extinguisher to eliminate fire risks
- Support wall-mounted, floor-mounted, and rack-mounted installations, compatible with 19-inch standard racks

SPECIFICATION

Model	DL5.0F
Battery Type	$LiFePO_4$(LFP)
Nominal Battery Energy	5.12kWh
Usable Battery Energy	4.864kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge C Rate	0.75C (75A)
Max. Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	110A, 15s
Recommended Charge & Discharge Power	2.56kW
Max. Charge Power	3.84kW
Max. Discharge Power	5.12kW
Depth of Discharge (DOD)	95%
Charge Temp. Range	0~55°C/-20~55°C (optional)
Discharge Temp. Range	-20°C~55°C
Net Weight	41kg
Dimension[W/D/H]	345/548/146mm
Protection Level	IP20
Communication	CAN/RS485
Cycle Life [1]	≥8000 Cycles
User Interface	WiFi+APP
Safety Protection	Built-in aerosol fire extinguisher
Installation [2]	Wall-mounted, Rack-mounted, Floor-mounted
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/CE-RED/IEC 62619/IEC 63056/RoHS/REACH
Compatible Inverters	SMA/Victron Energy/Ingeteam/Solis/GoodWe/Growatt/ Solplanet/Luxpower/Deye/Sungrow/Dyness etc.

[1] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

[2] Simple bracket installation, supporting a maximum of 6 modules.

DL5.0C Pro (Pakistan Only)

Residential Low-voltage Battery

- Up to 50 units in parallel, 5.12kWh--256kWh capacity
- Simultaneously supplying power to multiple loads, no need to worry about power outages
- -20°C to 55°C operating temperature (optional)
- Intelligent fire extinguishing system, detects and extinguishes fire in 5s(optional)
- Support wall-mounted, floor-mounted installations, high space utilization
- Real-time system monitoring, remote control, OTA updates

SPECIFICATION

Model	DL5.0C Pro
Battery Type	$LiFePO_4$(LFP)
Nominal Battery Energy	5.12kWh
Usable Battery Energy	4.864kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge C Rate	0.75C (75A)
Max. Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	120A, 10min
Recommended Charge & Discharge Power	2.56kW
Max. Charge Power	3.84kW
Max. Discharge Power	5.12kW
Depth of Discharge (DOD)	95%
Charge Temp. Range	0~55°C/-20~55°C (optional)
Discharge Temp. Range	-20°C~55°C
Net Weight	46kg
Dimension[W/D/H]	488/515/150mm
Protection Level	IP20/IP54[1]
Communication	CAN/RS485
Cycle Life[2]	≥6000 Cycles
User Interface	WiFi+APP
Safety Protection	Aerosol fire extinguisher(optional)
Installation	Wall-mounted,Floor-mounted
Expansion	Up to 50 units in parallel
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/Sungrow/Dyness etc.

[1] IP54 with a dedicated waterproof cover

[2] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

PowerDepot G2

Residential Low-voltage Storage Battery

- 5.12kWh--256kWh capacity, with on-demand expansion
- IP66 Protection, fearless of outdoor installation
- Built-in aerosol fire extinguisher to eliminate fire risks
- -20°C to 55°C wide operating temperature range
- Support wall-mounted, floor-mounted installations
- Cell balancing enhances system performance and extends battery life

SPECIFICATION

Model	PowerDepot G2
Battery Type	$LiFePO_4$ (LFP)
Nominal Battery Energy	5.12kWh
Usable Battery Energy	4.864kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge C Rate	0.75C (75A)
Max. Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	200A, 2min
Recommended Charge & Discharge Power	2.56kW
Max. Charge Power	3.84kW
Max. Discharge Power	5.12kW
Depth of Discharge (DOD)	95%
Charge Temp. Range	0~55°C/-20~55°C (optional)
Discharge Temp. Range	-20°C~55°C
Net Weight	54.4kg
Dimension[W/D/H]	450/165/640mm
Protection Level	IP66
Communication	CAN/RS485
Cycle Life [1]	≥8000 Cycles
User Interface	WiFi+APP
Safety Protection	Built-in aerosol fire extinguisher and 125A 1P Breaker
Installation	Floor-mounted,Wall-mounted
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/IEC62619/CE-EMC/ CEI 0-21
Compatible Inverters	SMA/Victron Energy/Ingeteam/Solis/GoodWe/Growatt/ Solplanet/Luxpower/Deye/Sungrow/Dyness etc.

[1] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

Powerbox G3

Residential Low-voltage Storage Battery

- 10.24kWh--512kWh capacity, with on-demand expansion
- Built-in aerosol fire extinguisher to eliminate fire risks
- -20°C to 55°C wide operating temperature range
- Fast charge and discharge: 1C(200A)
- Support wall-mounted, floor-mounted installations
- IP65 & C5-M Protection, fearless of outdoor installation
- Supports hand-in-hand connection

SPECIFICATION

Model	Powerbox G3
Battery Type	$LiFePO_4$ (LFP)
Nominal Battery Energy	10.24 kWh
Usable Battery Energy	9.728kWh
Nominal Capacity	200Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Recommended Charge & Discharge C Rate	0.5C (100A)
Max. Discharge C Rate	1C (200A)
Peak Discharge Current (25°C)	300A, 2min
Recommended Charge & Discharge Power	5.12kW
Max. Discharge Power	10.24kW
Depth of Discharge (DOD)	95%
Charge Temp. Range	0~55°C/-20~55°C (optional)
Discharge Temp. Range	-20°C~55°C
Net Weight	96.5kg
Dimension[W/D/H]	710/165/730mm
Protection Level	IP65
Anti-corrosion	C5-M
Communication	CAN/RS485
Cycle Life [1]	≥8000 Cycles
User Interface	WiFi+APP
Safety Protection	Built-in aerosol fire extinguisher
Installation	Floor-mounted,Wall-mounted
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC62040/CE-RED/CEC/CEI 0-21
Compatible Inverters	SMA/Victron Energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/Deye/Sungrow/Dyness etc.

[1] Test conditions: 0.2C Charging& Discharging, 25°C, 95% DOD, 70%EOL

PowerBrick Series

Residential Low-voltage Storage Battery

- Maximum charge/discharge current: 200A, simultaneously supplying power to multiple loads
- Built-in aerosol fire extinguisher to eliminate fire risks
- Supports wall-mounted and floor-mounted installations, easy to move with wheels
- 314Ah LFP cells, 8000+ cycles
- IP65 Protection(PowerBrick Plus) / IP20(PowerBrick Max/SC)

SPECIFICATION

Model	PowerBrick Plus	PowerBrick Max	PowerBrick SC
Battery Type	$LiFePO_4$ (LFP)		
Nominal Battery Energy	16.08kWh		
Usable Battery Energy	15.27kWh		
Nominal Capacity	314Ah		
Nominal Voltage	51.2V		
Operating Voltage	44.8V~57.6V		
Recommended Charge & Discharge C Rate	0.45C (140A)		
Max. Charge C Rate	0.64C (200A)		
Max. Discharge C Rate	0.64C (200A)		
Peak Discharge Current (25°C)	300A, 2min		
Recommended Charge & Discharge Power	7.168kW		
Max. Charge Power	10.24kW		
Max. Discharge Power	10.24kW		
Depth of Discharge (DOD)	95%		
Charge Temp. Range	0~55°C/-20~55°C (optional)		
Discharge Temp. Range	-20°C~55°C		
Net Weight	122.2kg	115.3kg	115.9kg
Dimension[W/D/H]	435/235/850mm	435/233/857mm	435/233/857mm
Protection Level	IP65	IP20	IP20
User Interface	WiFi+APP	WiFi+APP	WiFi+APP, LCD
Communication	CAN/RS485		
Cycle Life [1]	≥8000 Cycles		
Safety Protection	Built-in aerosol fire extinguisher		
Installation	Floor-mounted,Wall-mounted		
Regulating Wheel (4pcs)	1kg,80/80/80 (optional)		
Top Cover	2kg, 435/235/60mm(optional)	2kg, 435/233/60mm(optional)	2kg, 435/233/60mm(optional)
Expansion	Up to 50 units in parallel		
Certification & Safety Standard	UN38.3/IEC62619		
Compatible Inverters	SMA/Victron Energy/Ingeteam/Solis/GoodWe/Growatt/ Solplanet/Luxpower/Deye/Sungrow/Dyness etc.		

[1] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

PowerBrick Max20

Residential Low-voltage Storage Battery

- Up to 50 units in parallel, 20.07kWh--1MWh capacity
- Intelligent fire extinguishing system,detects and extinguishes fire in 5s
- Supports floor-mounted installations, easy to move by one person with wheels
- 392Ah LFP cells, 8000+ cycles
- -20°C to 55°C operating temperature (optional)
- Charge/discharge current: 210A, peak discharge current：313A, simultaneously supplying power to multiple loads

SPECIFICATION

Model	PowerBrick Max20
Battery Type	$LiFePO_4$(LFP)
Nominal Battery Energy	20.07kWh
Usable Battery Energy	19.07kWh
Nominal Capacity	392Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Max Charge & Discharge Current	210A (0.54C)
Peak Discharge Current (25°C)	313A (0.8C), 10min
Max Charge & Discharge Power	10.75kW
Peak Discharge Power(25°C)	16.03kW,10min
Depth of Discharge (DOD)	95%
Charge Temp. Range	0°C~55°C/-20°C~55°C(optional)
Discharge Temp. Range	-20°C~55°C
Net Weight	137Kg
Dimension[W/D/H]	454/251/925mm
Protection Level	IP20
Communication	CAN/RS485
Cycle Life[1]	≥8000 Cycles
User Interface	WIFI+APP
Safety Protection	Built-in aerosol fire extinguisher
Installation	Floor-mounted,Wall-mounted(optional)
Expansion	Up to 50 units in parallel
Certification & Safety Standard	IEC62619/IEC63056/EMC/RED/UN38.3/VDE 2510-50
Compatible Inverters	SMA/Victron Energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/Deye/Sungrow/Dyness etc.

[1] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

Tower Pro

High-Voltage Stacked Battery

- 7.68 kWh to 23.04 kWh / Cluster, Up to 12 clusters in parallel
- Built-in aerosol fire extinguisher to eliminate fire risks
- 1C Charge/Discharge： Simultaneously supplying power to multiple loads, no need to worry about power outages
- -20°C to 55°C wide operating temperature range
- Wiring-free stack-up, plug-and-play
- IP55 Protection rating for outdoor use
- Free mixing of modules within three years

SPECIFICATION

Model	Tower Pro TP7	Tower Pro TP11	Tower Pro TP15	Tower Pro TP19	Tower Pro TP23
Modules Number per Cluster	2	3	4	5	6
Nominal Energy	7.68kWh	11.52kWh	15.36kWh	19.2kWh	23.04kWh
Usable Energy	7.296kWh	10.944kWh	14.592kWh	18.24kWh	21.888kWh
Operating Voltage	168V~216V	252V~324V	336V~432V	420V~540V	504V~648V
Nominal Voltage	192V	288V	384V	480V	576V
Max. Charge & Discharge Power [1]	7.68kW	11.52kW	15.36kW	19.2kW	23.04kW
Depth of Discharge (DOD)	95%				
Single Cluster Dimension(W/D/H)mm [2]	587/310/338+220*n				
Net Weight	28.5kg+40.5kg*n				
Charge Temp. Range	0~55°C/-20~55°C (optional)				
Discharge Temp. Range	-20°C~55°C				
Communication	CAN/RS485				
Cycle Life [3]	≥8000 Cycles				
Design Life	15 Years				
Protection Level	IP55				
Installation	Cable-free stacking				
Expansion	Max. 12 Tower Pro can be connected in parallel				
Safety Protection	Built-in aerosol fire extinguisher				
User Interface	WiFi+APP				
Cooling Method	Natural cooling				
Certification	IEC62619/IEC63056/IEC62477/IEC62040/CE-EMC/VDE2510-50/CEI 0-21/CEI 0-16				
Compatible Inverters	KOSTAL/Ingeteam/Solis/GoodWe/Growatt/SAJ/Deye/Hoymiles/Solinteg/Kaco/Dyness etc.				

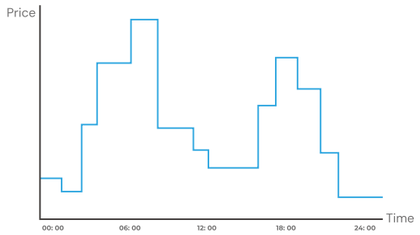
Battery Module Name	HV9640
Battery Type	$LiFePO_4$ (LFP)
Nominal Energy	3.84kWh
Nominal Capacity	40Ah
Nominal Voltage	96V
Net Weight	40.5kg
Dimension[W/D/H]	587/310/220mm

[1] Maximum Continuous Discharge/Charge Power when communicating with inverter is 1C

[2] "n" stands for the number of battery modules

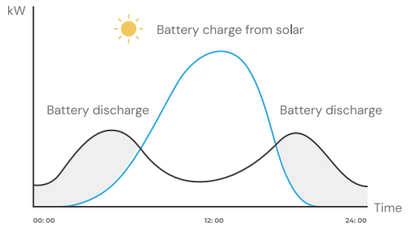
[3] Test conditions:0.2C Charging&Discharging, 25°C, 95%DOD, 70%EOL

BEYOND STORAGE, EMPOWER BUSINESS



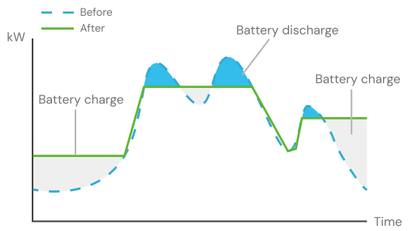
Dynamic Tariff

The energy storage system charges during periods of low electricity prices and discharges during periods of high prices, profiting from the price difference.



PV Consumption

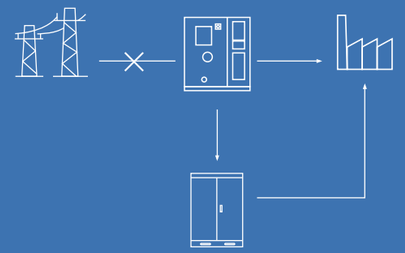
When the PV system generates sufficient electricity, the produced power is prioritized to supply the load. Any excess energy is stored in the battery for later use when the PV system's generation is insufficient to meet the load demand.



Peak Shaving / Demand Management

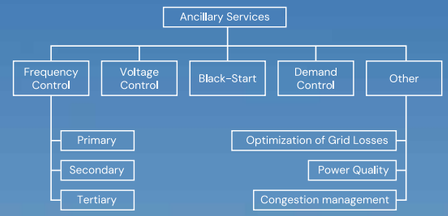
The peak shaving solution serves primarily for dynamic capacity enhancement. It performs load smoothing to resolve the constraint of limited transformer power rating.

The demand management solution leverages energy storage to lower basic electricity tariffs by reducing peak demand charges.



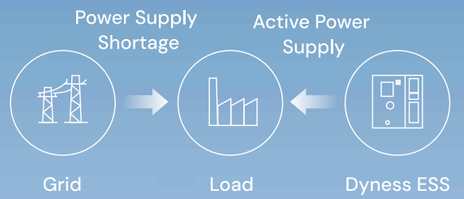
Emergency Power Backup

For critical applications requiring uninterrupted power supply, energy storage systems provide backup power during grid outages, ensuring continuous operation of essential loads and protecting against unexpected blackouts.



Ancillary Services

Ancillary services play a crucial role in maintaining the stability and reliability of the power grid. Managed by grid operators, these services ensure a dependable power supply by maintaining frequency, voltage, and load within strict operational limits.



Demand Response

Actively participate in grid demand response programs, providing peak shaving support during peak periods and receiving grid compensation while supporting grid stability.

COMMERCIAL & INDUSTRIAL ESS

Modular Stackable Energy Storage Battery

STACK100

STACK100 Pro

STACK314

Air-cooling Battery Cabinet

BF100-C140

BF200-C260

Air-cooling PV+ESS All-in-one Cabinet

DH200F-C260

Liquid-cooling All-in-one Cabinet

DH200Y-C260

DH800Y

STACK100/STACK100 Pro

Modular Stackable HV Battery

- 5.12kWh / Module, 76.8kWh / Cluster, Parallel up to 921kWh
- 100A charge/discharge current
- Wiring-free stack-up, plug-and-play, one cluster installation in 30min
- -20°C to 55°C wide operating temperature (optional)
- Free mixing of modules within three years
- IP20 (STACK100) / IP66(STACK100 Pro)
- Built-in aerosol fire extinguisher(STACK100) / 5-layer safety protection optional(STACK100 Pro)

Model	STACK100	STACK100 Pro
Battery Type	$LiFePO_4$ (LFP)	
Nominal Battery Energy	5.12kWh	
Usable Battery Energy	4.864kWh	
Nominal Capacity	100Ah	
Nominal Voltage	51.2V	
Module Number per Cluster	3~15 Pcs	
Operating Voltage	134.4V~864V	
System Energy Range	15.36kWh~76.8kWh	
Recommended Charge & Discharge C Rate	0.5C (50A)	
Max. Charge & Discharge C Rate	1C (100A)	
Peak Discharge Current (25°C)	125A, 2min	
Recommended Charge & Discharge Power	2.56kW	
Max. Charge & Discharge Power	5.12kW	
Depth of Discharge (DOD)	95%	
Charge Temp. Range	0°C~55°C/-20°C~55°C (optional)	
Discharge Temp. Range	-20°C~55°C	
Net Weight (kg) [1]	22+47*n	34.6+55*n
Single Cluster Dimension (W/D/H) [2]	590/390/233+133*n	657/460/292+169*n
Protection Level	IP20	IP66
Communication	CAN/RS485	
Cycle Life [3]	≥8000 Cycles	
User Interface	WiFi+APP	
Safety Protection	Built-in aerosol fire extinguisher	Pressure relief valve, Aerosol fire extinguisher, Temperature probe. Aerogel pad between batteries(optional), Fireproof protection for the module(optional)
Cooling Method	Forced wind cooling	Natural Cooling
Installation	Cable-free stacking	
Expansion	Up to 12 clusters in parallel	
Battery Module Name	S51100	S51100 pro
Certification & Safety Standard	CE-EMC/CE-RED/IEC62619/ 63056/62477/62040/UN38.3/ VED2510/CEI 0-21/CEI 0-16	CE-EMC/CE-RED/IEC62619/ 63056/62477/62040/UN38.3/ VED2510
Compatible Inverters	KOSTAL/Ingeteam/Solis /GoodWe/Growatt/SAJ/ Deye/Hoymiles/Solinteg /Dyness etc.	Solis/GoodWe/Growatt/Deye /Solinteg/KOSTAL/Ingeteam/ SINENG/Dyness etc.

[1] Net Weight of Expansion Base and Expansion Upper Cover: 12.5kg(STACK100),18.8kg(STACK100 Pro). "n" stands for the number of battery modules

[2] Height of Expansion Upper Cover: 70mm(STACK100),92mm(STACK100 Pro)

[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

Module	SBDU100	SBDU100 Pro
Operating Voltage	134.4V~864V	134.4V~864V
Maximum Continuous Current	100A	100A
Dimension (W/D/H)	590/390/133mm	657/460/193mm
Weight	15.3kg	23.5kg
Protection Level	IP20	IP66

STACK314

Modular Stackable HV Battery

- 16.08 kWh / Module, 241.14 kWh / Cluster, Parallel up to 2.89 MWh
- Intelligent fire extinguishing system,detects and extinguishes fires in 5s
- Cable free connection between modules, plug-and-play
- Max. continuous charge/discharge current:200A
- -20°C to 55°C wide operating temperature (optional)
- Free mixing of modules within three years

SPECIFICATION

Model	STACK314
Battery Type	$LiFePO_4$ (LFP)
Nominal Battery Energy	16.076kWh
Usable Battery Energy	15.272kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Module Number per Cluster	3~15 Pcs
Operating Voltage	134.4V~864V
System Energy Range	48.228kWh~241.14kWh
Recommended Charge & Discharge C Rate	0.45C (140A)
Max. Charge & Discharge C Rate	0.64C (200A)
Peak Discharge Current (25°C)	280A, 2min
Recommended Charge & Discharge Power	7.168kW
Max. Charge & Discharge Power	10.24kW
Depth of Discharge (DOD)	95%
Charging Temp. Range	0°C~55°C/-20°C~55°C (optional)
Discharging Temp. Range	-20°C~55°C
Net Weight (kg) [1]	38+115*n
Single Cluster Dimension (W/D/H) [2]	770/425/293+230*n
Protection Level	IP20
Communication	CAN/RS485
Cycle Life [3]	≥8000 Cycles
User Interface	WiFi+APP
Safety Protection	Built-in aerosol fire extinguisher
Cooling Method	Forced wind cooling
Installation	Cable-free stacking
Expansion	Up to 12 clusters in parallel
Battery Module Name	S51314
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619
Compatible Inverters	ATESS/Deye/Growatt/Megarevo/Solinteg/Solis/Sosen/Sinexcel/Dyness etc.

[1] Net Weight of Expansion Base and Expansion Upper Cover: 18.5kg.

[2] Height of Expansion Upper Cover: 80mm,"n" stands for the number of battery modules, up to a maximum of 8. If the installation is on an upper floor, you will need to evaluate the floor weighing before determining the number of stacks.

[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL.

Model	SBDU200
Operating Voltage	134.4V~864V
Maximum Continuous Current	200A
Dimension (W/D/H)	770/425/160mm
Weight	19.2kg
Protection Level	IP20

BF100-C140

Outdoor Air-cooling Battery Cabinet

- 100 kWh /140 kWh optional, multi-units DC parallelable, supports 2~12h long-duration energy storage.
- 3-level fire detection, active ventilation, and aerosol and water fire protection for full safety
- Single cluster dual-output design with standard universal side brackets,easy to install and maintain
- Ultra-low noise operation, optional noise reduction modules for noise-restricted applications

* This product comes with universal side brackets and fits most mainstream third-party inverters.

SPECIFICATION

Model	BF100-C100E	BF100-C140
Battery		
Battery Type	LFP ($LiFePO_4$)	
Battery Capacity	314Ah	
Rated Current	157A	
Max. Current	180A	
PACK Configuration	1P20S*5	1P20S*7
Rated Voltage	320Vdc	448Vdc
Voltage Range	290~360Vdc	406~504Vdc
Nominal Capacity	100kWh	140kWh
System		
Weight	1360kg (TBD)	1650kg (TBD)
Dimension (W*D*H)	850*1320*2425mm	
Max. Efficiency	94%	
Air Conditioner Power	3.2kW (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 C5)	
Cooling Method	Air-cooling	
Noise	≤75dB (Add optional accessories ≤65dB)	
Elevation	3000m (Derating above 2000m)	
Display	APP	
Fire Protection	Aerosol, Water fire system, Multi-sensor detector/Water ingress detector, Audible & visual alarm, Explosion-proof ventilation	
Communication	Ethernet/4G/RS485/Bluetooth/CAN	
Certification	EN IEC 61000-6-2:2019/ EN IEC 61000-6-4:2019/ UN38.3 / IEC 62619/ IEC 63056/IEC 62477-1/ EN 62477-1	

BF200-C260

Outdoor Air-cooling Battery Cabinet

- 241 kWh /261 kWh optional, multi-units DC parallel-able, supports 2~12h long-duration energy storage.
- 3-tier fire detection, active ventilation, and aerosol and water fire protection for full safety
- Single cluster dual-output design with standard universal side brackets,easy to install and maintain
- Ultra-low noise operation, optional noise reduction modules for noise-restricted applications

* This product comes with universal side brackets and fits most mainstream third-party inverters.

SPECIFICATION

Model	BF200-C240	BF200-C260
Battery		
Battery Type	LFP ($LiFePO_4$)	
Battery Capacity	314Ah	
PACK Configuration	1P20S*12	1P20S*13
Rated Current	157A	
Max. Current	180A	
Rated Voltage	768Vdc	832Vdc
Voltage Range	696~864Vdc	754~936Vdc
Nominal Capacity	241kWh	261kWh
System		
Weight	2500kg(TBD)	2600kg(TBD)
Dimension (W*D*H)	1320*1345*2200mm	
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	C3(Optional C5)	
Cooling Method	Air-cooling	
Noise	≤75dB(Add optional accessories ≤65dB)	
Altitude	3000m (Derating above 2000m)	
Display	APP	
Fire Protection	Aerosol, Water fire system, Multi-sensor detector/Water ingress detector, Audible & visual alarm, Explosion-proof ventilation	
Communication	Ethernet/4G/RS485/Bluetooth/CAN	
Certification	EN IEC 61000-6-2:2019/ EN IEC 61000-6-4:2019/ UN38.3/ IEC 62619/ IEC 63056/ IEC 62477-1/ EN 62477-1	

DH200F-C260

Outdoor PV+ESS All-in-one Cabinet

- GCC-AC combiner cabinet supports up to 6 units for centralized grid connection, with reserved DC expansion interfaces
- STS enables ≤20ms switching. SCC-AC switching cabinet supports off-grid operation of up to 4 units
- DC-coupled PV, improving power generation efficiency, reducing system costs
- 3-level fire detection with explosion venting, aerosol and water fire suppression
- Bottom-entry and bottom-exit design for easier installation
- Versatile Applications: Compatible with PV systems, EV chargers, and other energy assets

SPECIFICATION

Model	DH200F-C260	
Battery		
Battery Type	LFP ($LiFePO_4$)	
Battery Capacity	314Ah	
PACK Configuration	1P20S*13	
Rated Current	157A	
Max. Current	180A	
Voltage Range	754~936Vdc	
Nominal Capacity	261kWh	
On-grid AC Side		
Rated Power	124.9kW	125kW
AC Maximum input current/output current	361A/200A	
AC Rated Voltage	400Vac	
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
Power Factor	≥0.99 (1(Leading)~1(Lagging))	
THDi	≤2% (Rated power)	
Max. Number of Parallel Expansions	10	
Off-grid AC Side (Standard)		
Rated Power	124.9kW	125kW
AC Rated Voltage	400Vac	
AC Maximum Current	200A	
Wiring method	3P4L+PE	
Frequency	50Hz/60Hz	
Unbalanced Load	1	
THDv	< 3% (Linear load)	
Max. Number of Parallel Expansions	4(Requires SCC-AC)	
Photovoltaic (Optional)		
Max. Input Power	63kW*4	
Max. Input Current	160A*4	
Short-circuit Current	240A*4	
Max. Voltage	720Vdc	
Input Voltage Range	200-720Vdc	
Start-up Voltage	250Vdc	
MPPT Path	4	
System		
Weight	2900±100kg	
Dimension (W*D*H)	2000*1345*2200mm	
Max. Efficiency	88%	
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	C3	
Anti-electric shock grade	CLASS I	
Cooling method	Air cooling	
Noise	≤75dB(Add optional accessories ≤65dB)	
Elevation	3000m(Derating above 2000m)	
Display	Touch screen	
Fire Protection	Aerosol, Water fire system, Multi-sensor/water ingress detector, Audible&Visual alarm, Explosion-proof ventilation	
Communication	Ethernet/4G/RS485/CAN	
Certification	UN38.3, EN IEC 61000-6-2, EN IEC 61000-6-4, IEC 62619, IEC 63056, EN 62477-1, IEC 62933-5-2, UL 9540A, EN 50549-1/-2/-10 + deviation, C10/11, G99, G100, TOR, EIFS, TF3.3.1, UNE-217001/217002, NRS-097, VDE-AR-N4105/N4110, (EU) 2023/1542	

DH200Y-C260

Liquid-cooling All-in-one Cabinet

- GCC-AC supports up to 6 units for centralized grid connection
- SCC-AC supports off-grid operation of up to 4 units
- Liquid-cooled battery packs and air-cooled PCS for optimized thermal management
- Triple-level fire detection with explosion venting, aerosol and water fire suppression
- PACK IP67+PCS IP66, with optional C3/C5 anti-corrosion rating
- Front-serviceable battery compartment and front/rear serviceable electrical compartment

SPECIFICATION

Model	DH200Y-C260		
Battery			
Battery Type	LFP ($LiFePO_4$)		
Battery Capacity	314Ah		
PACK Configuration	1P52S*5		
Rated Current	157A		
Max. Current	180A		
Voltage Range	754~936Vdc		
Nominal Capacity	261kWh		
On-grid AC Side			
Rated Power	99.9kW	124.9kW	125kW
AC Maximum Current	144A	180A	
AC Rated Voltage	400Vac		
Wiring Method	3P4L+PE		
Frequency	50Hz/60Hz		
Power Factor	0.99(Leading)~0.99(Lagging)		
THDi	<3% (Rated power)		
Max. Number of Parallel Expansions	20		
System			
Weight	2800±100kg		
Dimension (W*D*H)	1055*1475*2400mm		
Max. Efficiency	90%		
Liquid-cooling Power	5kW (Cooling), 2kW (Heating)		
Operating Temperature	-25~50°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	≤70dB		
Elevation	3000m (Derating above 2000m)		
Display	Touch screen		
Fire Protection	Aerosol,Multi-sensor Detector,Coolant Leak Detector,Explosion-proof Ventilation,Audible&Visual Alarm,Water Fire System		
Communication	4G/Ethernet/RS485		
Certification	UN38.3, IEC 62619, IEC 63056, IEC 62477-1, IEC 62933-5-2, EN IEC 61000-6-2/-4, UL 9540A (In Progress), C10/11, VDE-AR-N4110, EN 50549-1/-2/-10 + deviation, G99, CEI 0-16/CEI 0-21 (In Progress), (EU) 2023/1542		

DH800Y

Fully liquid-cooled modular energy storage system

- Modular & Flexible: 6 Units = 1 Container, scalable architecture with a 20ft footprint
- Safety & Reliability: 3+2+1 Safety design, PACK/cluster/water fire suppression + Active pressure relief / Passive explosion relief design + 2-hour flame-retardant enclosure
- All-Climate Adaptability: Full liquid cooling, -30°C to 50°C reliable operation
- Higher Project Value: 35% Less Space, 35% Less Transport, 20% Less O&M

SPECIFICATION

Model	DH800Y-2H	DH800Y-4H
Battery		
Battery Type	LFP ($LiFePO_4$)	
Battery Capacity	314Ah	
PACK Configuration	1P416S*2	
Rated Current	157A*2	78.5A*2
Max. Current	180A*2	180A
Voltage Range	1206.4~1497.6Vdc	
Nominal Capacity	836kWh	
On-grid AC Side		
Rated Power	420kW	210kW
AC Rated Current	352A	176A
AC Maximum Current	396A	198A
AC Rated Voltage	690Vac	
Wiring Method	3P3W+PE	
Frequency	50Hz/60Hz	
Power Factor	1(Leading)~1(Lagging)	
THDi	≤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 (Derating above 45°C)	
Operating Humidity	0~95%RH (Non-condensing)	
Ingress Protection	IP55	
Anti-corrosion Grade	C3 (Optional C5)	
Cooling Method	Fully liquid-cooling	
Noise	≤75dB	
Elevation	3000m (Derating above 2000m)	
Display	APP	
Fire Protection	Aerosol, Water fire system, Multi-sensor detector, Water ingress detector, Audible&Visual alarm, Explosion-proof ventilation, Explosion relief	
Communication	Ethernet/4G/RS485/Bluetooth	
Standard	CQC, CE, UL9540A, UN38.3	

RESIDENTIAL APPLICATION CASES

Austria

PowerBrick
57.32 kWh ESS Capacity

Australia

Powerbox G2
40.96 kWh ESS Capacity

India

Tower Pro TP11
11.52 kWh ESS Capacity

Palestine

PowerBrick SC
32.14 kWh ESS Capacity

Thailand

PowerBrick
57.2 kWh ESS Capacity

South Africa

PowerBrick
57.2 kWh ESS Capacity

COMMERCIAL & INDUSTRIAL APPLICATION CASES

China
1 MW / 2.32 MWh ESS Capacity
DH200Y

China
13 MW / 30 MWh ESS Capacity
DH200Y

Austria
100 kW / 215 kWh ESS Capacity
DH200F

Bulgaria
300 kW / 645 kWh ESS Capacity
DH200F

Austria
983 kWh ESS Capacity
STACK100

Germany
532 kWh ESS Capacity
STACK100