DYNESS

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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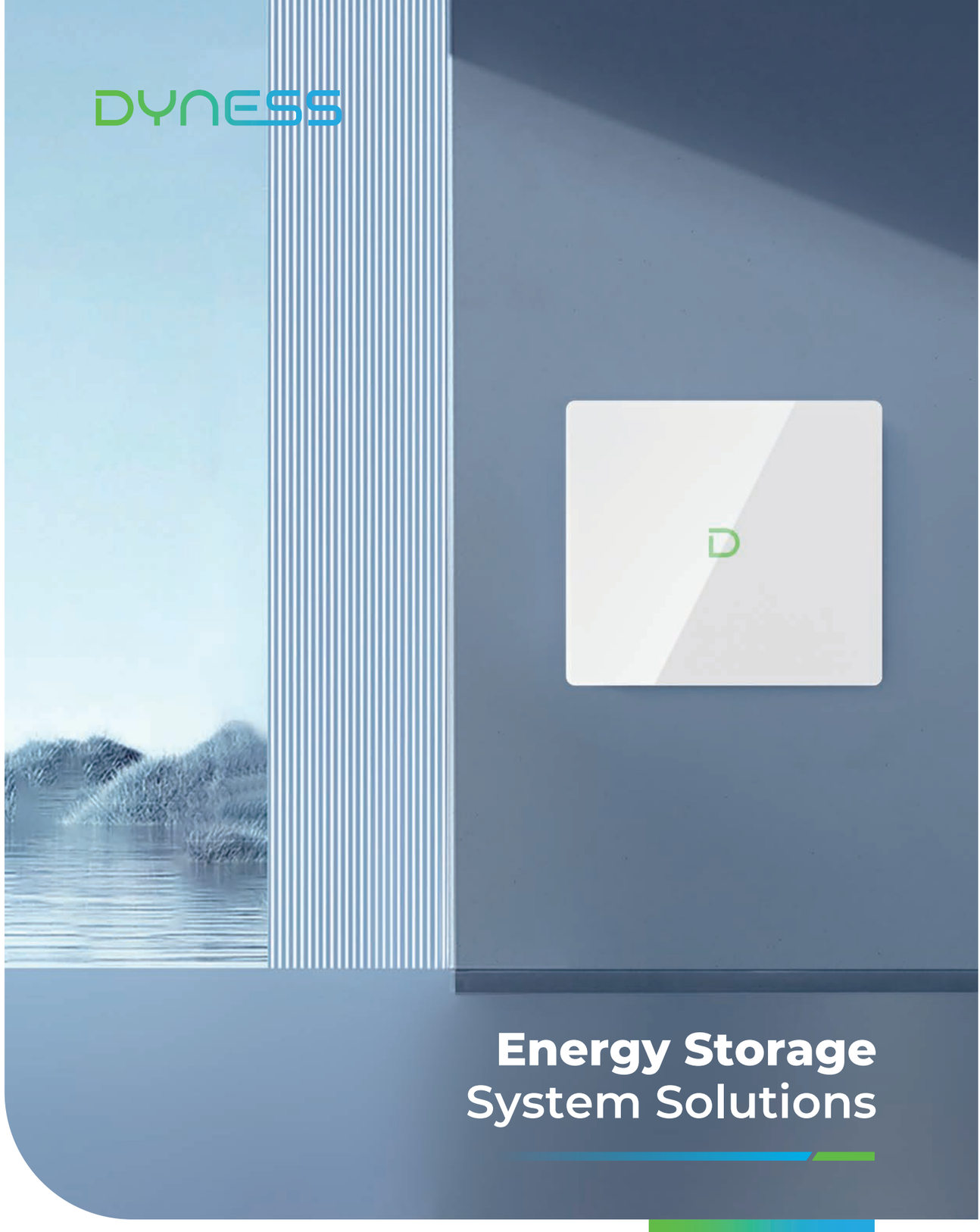

Energy Storage System Solutions

Discover Your Nature

For Middle East

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

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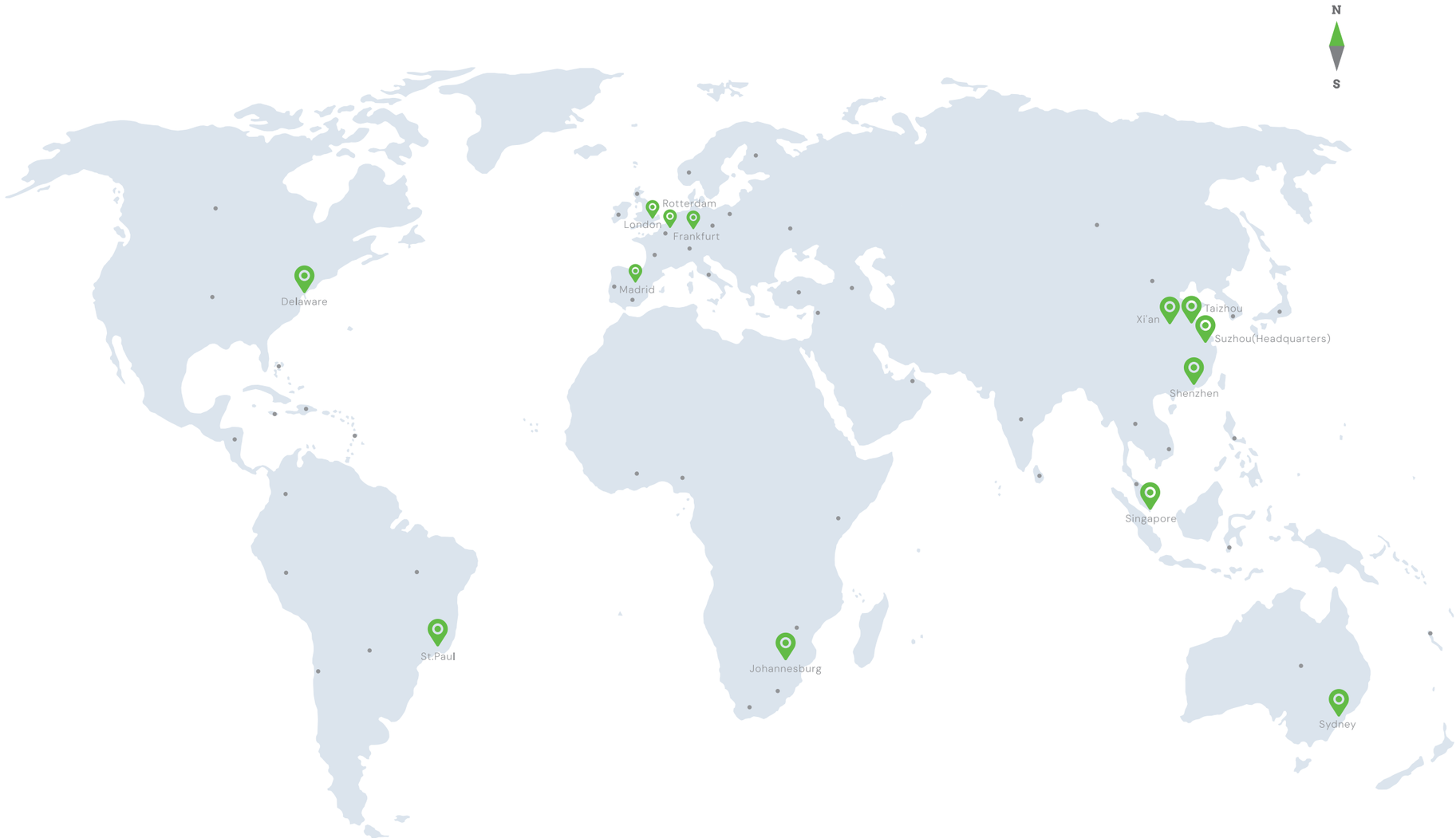


Main Shipping Areas

Branches

13
Global Branches

2
Production Centres

2
R&D Centres

3 GWh
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

1C Discharge

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

Automatic Self-Heating

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

Easy Installation

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

Long-term Reliability

LFP cells, 6000+ cycles, 10 years warranty

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
Recomended 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	54kg
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 Inverterst	SMA/Schneider/Victron energy/Ingeteam/Solis /GoodWe/Growatt/Soplanet/SOFAR/SAJ/DEYE etc.

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

Powerbox G2

Powerbox G2 is a low-voltage product designed for residential energy storage scenarios, supporting up to 50 parallel units, 10.24kWh--512kWh energy coverage. With 6.5in slim design, there is no limit to the installation space. 1C Discharge, providing strong power for household electricity consumption.

Features and Advantages

Flexible Expansion

Up to 50 units in parallel,
10.24kWh--512kWh capacity

Ultra Safe

Intelligent fire extinguishing system, react within 5 seconds, automaticly pressure relief

Automatic Self-heating

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

1C Discharge

Max discharge current:200A, simultaneously supplying power to multiple loads

Easy Installation

30% less volume, 15% less weight
save time and labor

IP65 Protection

Fearless of outdoor insatallition,
strong environmental adaptability

Specification

Model	Powerbox G2
Battery Type	$LiFePO_4$
Nominal Battery Energy	10.24kWh
Usable Energy	9.728kWh
Operating Voltage	44.8-57.6V
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Nominal Charge or Discharge Power	5.12kW
Max Discharge Power	10.24kW
Recomended Charge & Discharge C Rate	0.5C
Max Discharge C Rate	1C
Recommended Charge/Discharge Current	100A
Max Discharge Current	200A
Peak Discharge Current	300A (2mins, 25°C)
Recommended Depth of Discharge (DOD)	95%
Net Weight	96kg
Dimension[W/D/H]	710/165/640mm
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
Cycle Life *	Unlimited cycles/10 Years
Protection Level	IP65
Expansion	Up to 50 units in parallel
Color	White
WIFI Module	Built-in WiFi module; APP OTA function
Battery low temperature heating function	Optional
Active fire protection system	Built-in aerosol fire extinguisher
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC62040/CE-RED/CEC/GOST-R
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/ Solis/GoodWe/Growatt/Soplanet/SOFAR/SAJ/DEYE etc.

* Test conditions: 0.2C Charging & Discharging. @25°C, 95% 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 fre extinguishing system,
react within 5 seconds(optional)

Long-term Reliability

LFP cells, long cycles,
10 years warranty

No Black Out

Maximum discharge current: 200A, simultaneously supplying power to multiple loads

Easy Installation

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

Smart Management

Real-time system monitoring, remote control, OTA updates

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(0.7C)
Max. Discharge Current	200A(0.7C)
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
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
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/Growatt/ Soplanet/Luxpower/DEYE etc.

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

Ultra Cube

The off-grid system Ultra Cube provides reliable backup power in areas with unstable power grids. It offers a 2.4 kWh / 4.8 kWh selectable battery capacity, dual-channel MPPT, and high PV conversion efficiency.

Features and Advantages

Expandable On Demand

All in one, 2.4kWh/4.8kWh capacity options,easy to move by 1 person

No Black Out

UPS≤20ms, ensuring the stability of household electricity consumption

Dual MPPT

Suitable for multi-orientation roofs, high PV conversion efficiency

Flexible Applications

Suitable for a wide variety of scenarios, equipped with wheels to make it easy to move.

Specification

Model	Ultra Cube			
Model Name	D2.4XC-2.4		D2.4XC-4.8	
Battery Data				
Battery Type	$LiFePO_4$			
Single Cell Rated Energy (kWh)	2.4			
Single Cell Nominal Capacity (Ah)	50			
Number of modules	1		2	
System capacity(kWh)	2.4		4.8	
Rated Voltage (V)	48			
Maximum Input power of the battery system (W)	1200		2400	
Maximum Output power of the battery system (W)	1200		2000	2400
Cycle Life	6000			
Max Grid Charging Power (W)	1200		1680	
Max Grid Continuous Charging Current (A)	25		30	
Max PV Charging Power (W)	1200		2400	
Max PV Continuous Charging Current (A)	25		50	
PV String Input Data				
Max.PV Input Power（W）	1200		2400	
Number of DC input	4			
Number of MPP Trackers	2			
Max. Input Voltage（V）	65			
MPPT Range(V)	18-60			
Max.Input Currrent(A)	28/28			
Off-grid Output Data				
Nominal Output Voltage (V)	120	230	120	230
Nominal Apparent Power (VA)	1200		2000	2400
Nominal Output Frequency (Hz)	50/60			
THDv	≤3%			
Overvoltage Protection	Integrated			
Short Circuit Protection	Integrated			
Overtemperature Protection	Integrated			
AC Input Data (On-grid)				
Input Voltage Range (V)	90-132	180-264	90-132	180-264
Nominal AC Grid Frequency (Hz)	50/60			
Max. AC Current From Utility Grid (A)	18	12	18	12
Grid Input Overload Current (A)	20	12	20	12
Power Factor	≥0.97			
Grid To Off-grid Transfer Time (ms)	≤20			
Off-grid To Grid Transfer Time (ms)	≤10			
General Data				
Dimension (W/H/D mm)	540/560/252(Without Wheel)			
Weight (kg)	43.5		65.5	
Ingress Protection Rating	IP20			
User Interface	LCD			
Communication with BMS	CAN			
Cooling Method	Fan Cooling			

Tower

Tower series is specifically designed for large residential, as well as small commercial and industrial applications, offering an energy capacity range from 7.1 kWh to 255.72 kWh. It has been market-verified for 5 years with 0 accidents.

Features and Advantages

Flexible Expansion

Up to 12 clusters in parallel,
7.1kWh~255.72kWh capacity

IP54 Protection

Indoor&outdoor installations

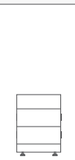
Easy Installation

0 wiring, Plug&Play, allow 1 people to install

Smart Management

Real-time system monitoring, remote control, OTA updates

Specification

Model	Tower T7	Tower T10	Tower T14	Tower T17	Tower T21
Product Pattern					
Battery Module Type	$LiFePO_4$	$LiFePO_4$	$LiFePO_4$	$LiFePO_4$	$LiFePO_4$
Battery Module Quantity	2	3	4	5	6
Nominal Energy	7.10 kWh	10.66 kWh	14.21 kWh	17.76 kWh	21.31kWh
Usable Energy	6.745kWh	10.127kWh	13.499kWh	16.872kWh	20.245kWh
Operating Voltage	168~216V	252~324V	336~432V	420~540V	504~648V
Nominal Voltage	192V	288V	384V	480V	576V
Nominal Capacity	37Ah	37Ah	37Ah	37Ah	37Ah
Max. Continuous Charge/ Discharge Power *	4.26 kW	6.39 kW	8.52 kW	10.65 kW	12.78 kW
Recommended Depth of Discharge (DOD)	95%	95%	95%	95%	95%
Dimensions [W/D/H] (mm)	504/380/700	504/380/900	504/380/1100	504/380/1300	504/380/1500
Net Weight [kg]	105	146	187	228	269
Charging Temperature Range	0~50°C				
Discharging Temperature Range	-10~50°C				
Communication	CAN/RS485				
Cycle life **	≥6000 Cycles				
Protection Level	IP54				
Battery Module Name	HV9637				
Expansion	Max. 12 towers can be connected in parallel				
Certification	UL1973/CE-EMC/CE-RED/IEC62040/IEC62619/IEC62477/IEC63056/ UKCA/ROHS/VDE2510-50/ISO14067/CEC/GOST-R/UN38.3/CEI-021				
Compatible Inverters	Kostal/Ingeteam/Solis/Goodwe/Solplanet/ Deye/Hoymiles/Solinteg/SINENG/Sinexcel ect.				

* Maximum Continuous Discharge/Charge Power when communicating with inverter is 0.6C
* * Test Conditions:0.2C Charging & Discharging.@25°C,95%DOD

Tower Pro

Tower Pro is a high-voltage product designed for residential energy storage applications. It supports a maximum of 12 clusters in parallel and provides an energy capacity range from 7.68 kWh to 276.48 kWh. The system allows for a maximum 1C discharge, and its stackable auto-configuration modules simplify installation and maintenance.

Features and Advantages

Flexible Expansion

Up to 12 clusters in parallel,
7.68kWh--276.48kWh capacity

Efficient

DC side battery charging and discharging efficiency＞97%, life time increased by 5%

Automatic Self-heating

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

Ultra Safe

Intelligent fire extinguishing system, react within 5 seconds

1C Discharge

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

Easy Installation

0 wiring, installation in 15 minutes by one person, save time and labor

Specification

Model	Tower Pro TP7	Tower Pro TP11	Tower Pro TP15	Tower Pro TP19	Tower Pro TP23
Product Pattern					
Battery Module Type	$LiFePO_4$	$LiFePO_4$	$LiFePO_4$	$LiFePO_4$	$LiFePO_4$
Battery Module Quantity	2	3	4	5	6
Rated Energy	7.68 kWh	11.52kWh	15.36kWh	19.2kWh	23.04kWh
Usable Energy	7.296kWh	10.944kWh	14.592kWh	18.24kWh	21.888kWh
Operating Voltage	168~216V	252~324V	336~432V	420~540V	504~648V
Nominal Voltage	192V	288V	384V	480V	576V
Nomina Capacity	40Ah	40Ah	40Ah	40Ah	40Ah
Max. Continuous Charge/Discharge Power*	7.68kW	11.52kW	15.36kW	19.2kW	23.04kW
Recommended Depth of Discharge (DOD)	95%	95%	95%	95%	95%
Dimensions[W/D/H] (mm)	587/310/788	587/310/1009	587/310/1230	587/310/1451	587/310/1672
Net Weight [kg]	99.5	135	170.5	206	241.5
Charging Temperature Range	0~55°C/-20~55°C (with heating function)				
Discharging Temperature Range	-10~55°C/-20~55°C (with heating function)				
Communication	CAN/RS485/RS232				
Cycle life **	≥8000 Cycles				
Protection Level	IP55				
Warranty	10/15 Years (Optional)				
Heating Function	PI Heating (Optional)				
Fire Protection Function	Aerosol fire extinguishing				
OTA Remote Upgrade Function	Equipped				
Battery Module Name	HV9640				
Expansion	Max. 12 Tower Pro can be connected in parallel				
Certification	IEC62619/IEC63056/IEC62477/IEC62040/CE-EMC/VDE2510-50				
Compatible Inverters	kostal/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG ect.				

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

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

AR1.2

DYNESS AR1.2 is an alternative to lead-acid batteries, widely used for energy storage in RVs, indoor and outdoor applications, and fishing boats. It features reliable LFP cells that ensure safe performance and a lifespan exceeding 3000 cycles. The battery is light-weight, making it easy for one person to carry.

Features and Advantages

Light Weight

The weight is about 1/3 of a lead-acid battery of the same capacity.

Long Service Life

More than 3000 cycles

Flexible Module

Module design, easy expansion in series and parallel

High Protection Level

IP65

Easy Installation

<12kg, convenient for handling and can be used in various scenarios

Specification

Model	AR1.2
Battery Type	LFP
Nominal Battery Energy	1.28kWh
Nominal Capacity	100Ah
Nominal Voltage	10-14.8V
Max. Power Charge/Discharge Current	100A (1C)
Depth of Discharge (DOD)	100%
Net Weight	＜12kg
Dimension[W/D/H]	330mm/172mm/214mm
Charging Temp. Range	0~50°C
Discharging Temp. Range	-20~55°C
Protection level	IP65
Cycle Life *	≥3000cycles
Expansion	4 in series and parallel
Certification & Safety Standard	UN38.3

* 3000 cycles： Test Conditions: 0.5C Discharging.@25°C, 100% DOD
4000 cycles： Test Conditions: 0.5C Discharging. @25°C, 80% DOD

Commercial and Industrial Energy Storage Products

- All-in-one
- Safe & Reliable
- High Energy Density
- All Scenario
- Intelligent O&M

STACK100

STACK100 is specifically designed for residential, small commercial, and industrial storage applications. This system features a rackless, free-stacking design that allows for easy plug-and-play installation. It supports up to 12 clusters of parallel machines, with a maximum expansion capacity of 921 kWh. With 1C charging and discharging capabilities and a 10-year warranty.

Features and Advantages

Flexible Expansion

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

Ultra Safe

Intelligent fire extinguishing system,
react within 5 seconds

1C Rate

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

Easy Installation

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

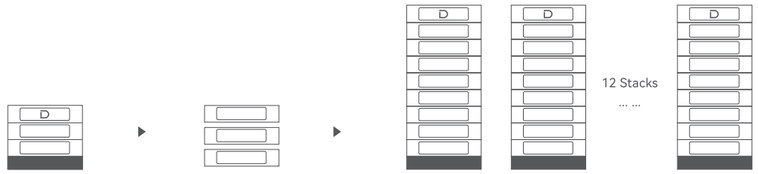
Long-term Reliability

LFP cells, 0 decay in 3 years, 10 years long warranty

Module Mixing

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	Unlimited cycles / 10 Years
Single Cluster Dimension[W*D*H](mm)	590*390*(233+133*n),"n" stands for the number of battery modules
Charging Temp. Range	0~55°C
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
Certification & Safety Standard	CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3
Compatible Inverters	Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG ect.

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

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, and ensures the safe and stable operation of the system.

Features and Advantages

Flexible Expansion

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

Long-term Reliability

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

Economical

Rack structure, less footprint, lower cost, higher space utilization

Intelligent O&M

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

Specification

Model	HV51100
Battery Type	$LiFePO_4$
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	GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3/CE-EMC

* Test conditions: 0.2C Charging/Discharging, @25℃, 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 an outdoor-mountable DC battery cabinet featuring an intelligent air-cooled cooling design. It offers flexible single cabinet capacity of 71/86/100kWh, reserved DC side expansion interface. Additionally, it is equipped with a wall-mounted hybrid inverter to facilitate AC output. This cabinet 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, reserve DC side expansion interface

Simple O&M

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

IP55+C3/C5

Resistance up to C3/C5 corrosion level, Handles harsh environments such as high humidity and salt spray corrosion with ease.

Safe & Reliable

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

Specification

Model	BF100-C70	BF100-C80	BF100-C100
Battery			
Battery Type	$LiFePO_4$		
Battery Capacity	280Ah		
Rated Current	140A		
Max. Current	160A		
PACK Configuration	1P16S		
PACK Quantity	5 PACK/Cluster	6 PACK/Cluster	7 PACK/Cluster
Voltage Range	232~288Vdc	278.4~345.6Vdc	324.8~403.2Vdc
Nominal Capacity	71kWh	86kWh	100kWh
System			
Weight	1100±100kg	1200±100kg	1300±100kg
Dimension (W/D/H)	725/1224/2258mm		
Max. Efficiency	≥94% (TBD)		
Air Conditioner Power	2kW (Cooling), 1kW (Heating)		
Temperature	-20~50℃ (Derating above 45℃)		
Humidity	0~95%RH (Non-condensing)		
Ingress Protection	IP55		
Anti-corrosion Grade	C3/C5		
Cooling Method	Air-cooling		
Noise	≤65dB (TBD)		
Display	Touch screen		
Elevation	3000m (Derating above 2000m)		
Fire Protection	Aerosol (Optional Perfluorohexanone)		
Communication	Ethernet/4G/RS485		
Certification	CE		

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.

Safe & Reliable

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

IP55 Protection

Fearless of outdoor insatallition, strong environmental adaptability

Simple O&M

Modular design, rear outlet and lower outlet mode, easy to install, easy to layout, easy to maintain, and support for online monitoring and O&M

Full-scenario

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

Specification

Model	DH100F-C70	DH100F-C80	DH100F-C100
Battery			
Battery Type	$LiFePO_4$		
Battery Capacity	280Ah		
Rated Current	140A		
Max. Current	160A		
PACK Configuration	1P16S		
PACK Quantity	5 PACK/Cluster	6 PACK/Cluster	7 PACK/Cluster
Voltage Range	232~288Vdc	278.4~345.6Vdc	324.8~403.2Vdc
Nominal Capacity	71kWh	86kWh	100kWh
AC (On-grid)			
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)		
AC (Off-grid)			
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)		
Photovoltaic			
Max. Input Power	25kW*2	30kW*2	35kW*2
Max. Input Current	80A*2		
Short-circuit Current	100A*2		
Max. Voltage	1000Vdc		
Input Voltage	300~1000Vdc	350~1000Vdc	400~1000Vdc
Start-up Voltage	375Vdc	440Vdc	500Vdc
MPPT Path	2		
System			
Weight	1500±100kg	1600±100kg	1700±100kg
Dimension (W/D/H)	1200/1224/2258mm		
Max. Efficiency	≥84%（TBD）		
Air Conditioner Power	2kW (Cooling), 1kW (Heating)		
Temperature	-20~50℃ (Derating above 45℃)		
Humidity	0~95%RH (Non-condensing)		
Ingress protection	IP55		
Anti-corrosion Grade	C3		
Cooling Method	Air cooling		
Noise	≤70dB (TBD)		
Elevation	3000m (Derating above 2000m)		
Display	Touch screen		
Fire Protection	Aerosol (Optional Perfluorohexanone)		
Communication	Ethernet/4G/RS485		
Certification	CE, TUV		

DH200F

The DH200F features an integrated multi-functional design that supports PV access ,on-grid to off-grid switching, covering the whole scenario of photovoltaic, storage and diesel generator. It supports a maximum of 12 machines in AC parallel and can be expanded to 2.58MWh. Support equipped with intelligent and efficient STS, the switching time between on-grid and off-grid is less than 20 ms, ensuring a stable power supply.

Features and Advantages

Flexible Expansion

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

Structural Innovation

The unique air duct design features a shoulder-to-shoulder flexible layout, resulting in high space utilization.

No Black Out

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

IP55 Protection

Resistant to outdoor installation with strong environmental adaptability.

Safe & Reliable

A prevention-oriented fire protection strategy featuring three levels of detection, Multiple extinguishing agents, and EMS intelligent judgment.

Full-scenario

Supporting PV access, transitioning from on-grid to off-grid, and encompassing the entire spectrum of photovoltaic systems, energy storage, and diesel generators.

Specification

Model	DH200F
Battery	
Battery Type	$LiFePO_4$
Battery Capacity	280Ah
PACK Configuration	1P16S
PACK Quantity	15 PACK/Cluster
Rated Current	140A
Max. Current	160A
Voltage Range	672~864Vdc
Nominal Capacity	215kWh
AC (On-grid)	
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
AC(Off-grid)	
Rated Power	100kW
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	
Max. Input Power	50kW (Power 1.1 times overload)
Max. Input Current	100A
Short-circuit Current	150A
Max. Voltage	670Vdc
Input Voltage	200-670Vdc
Start-up Voltage	250Vdc
MPPT Path	0~3
System	
Weight	2800±100kg
Dimension (W/D/H)	1850/1265/2250mm
Max. Efficiency	≥87% (TBD)
Air Conditioner Power	3kW (Cooling), 1kW (Heating)
Temperature	-20~50℃(Derating above 40℃)
Humidity	0~95%RH (Non-condensing)
Ingress protection	IP55
Anti-corrosion Grade	C3
Cooling method	Air cooling
Noise	≤75dB
Elevation	3000m (Derating above 2000m)
Display	Touch screen
Fire Protection	Aerosol (Optional Perfluorohexanone)
Communication	Ethernet/4G/RS485
Certification	CQC, CE, TUV

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

Intelligent fire extinguishing system, react within 5 seconds

Smart Temperature Control

PACK smart liquid cooling+PCS smart Air cooling,cluster-level temperature difference≤ 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.

Minimal O&M

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

Specification

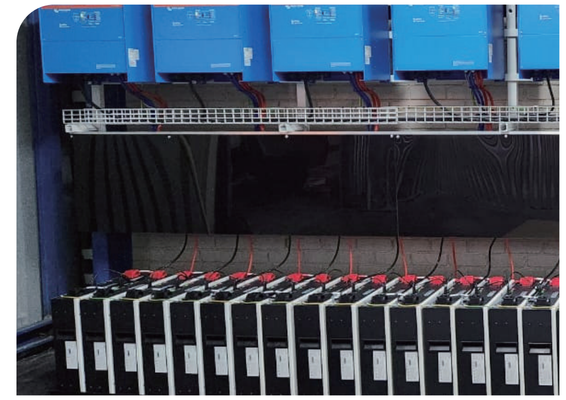
Model	DH200Y
Battery	
Battery Type	$LiFePO_4$
Battery Capacity	280Ah
PACK Configuration	1P52S
PACK Quantity	5 PACK/Cluster
Rated Current	140A
Max. Current	160A
Voltage Range	754~936Vdc
Nominal Capacity	232kWh
AC (On-grid)	
Rated Power	100kW
AC Maximum Current	145A
AC Rated Voltage	400Vac
Wiring Method	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)	1055/1500/2398mm
Max. Efficiency	≥90%（TBD）
Liquid-cooling Power	2.5kW (Cooling), 2kW (Heating)
Temperature	-20~50℃ (Derating above 45℃)
Humidity	0~95%RH (Non-condensing)
Ingress Protection	IP55
Anti-corrosion Grade	C3/C5
Cooling Method	PACK Liquid-cooling + PCS Air-cooling
Noise	≤75dB
Elevation	3000m (Derating above 2000m)
Display	Touch screen
Fire Protection	Aerosol (Optional Perfluorohexanone)
Communication	Ethernet/4G/RS485
Certification	CQC, CE, TUV

Project Cases

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

Residential Application Cases

- **122.88kWh** 24 units BX51100 The Philippines



- **102.4kWh**
  20 units BX51100 South Africa

- **61.44kWh**
  12 units DL5.0C Yemen

- **61.44kWh**
  6 units Powerbox Pro South Africa

- **61.44kWh**
  6 units Powerbox Pro Lebanon

- **9.6kWh** 4 units B4850 Brazil

- **14.21kWh** Tower T14 Sri Lanka

C&I Application Cases

- **Belgium**
  DH200F

100kW/215kWh
Dynamic Scaling (peak-shaving) + PV Consumption (self-shaving)

- **The Netherlands**
  DH200F

100kW/215kWh
Photovoltaic Consumption (self-use)

- **Brazil**
  PowerRack HV4

100kW/307kWh
Dynamic Capacity Expansion (peak-shaving) + PV Consumption

- **Lebanon**
  PowerRack HV4F

Capacity: 215kWh
Self Generation and Consumption

After-sales Service

online + offline comprehensive operation and maintenance service system

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Offline

8 Supporting Languages

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

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