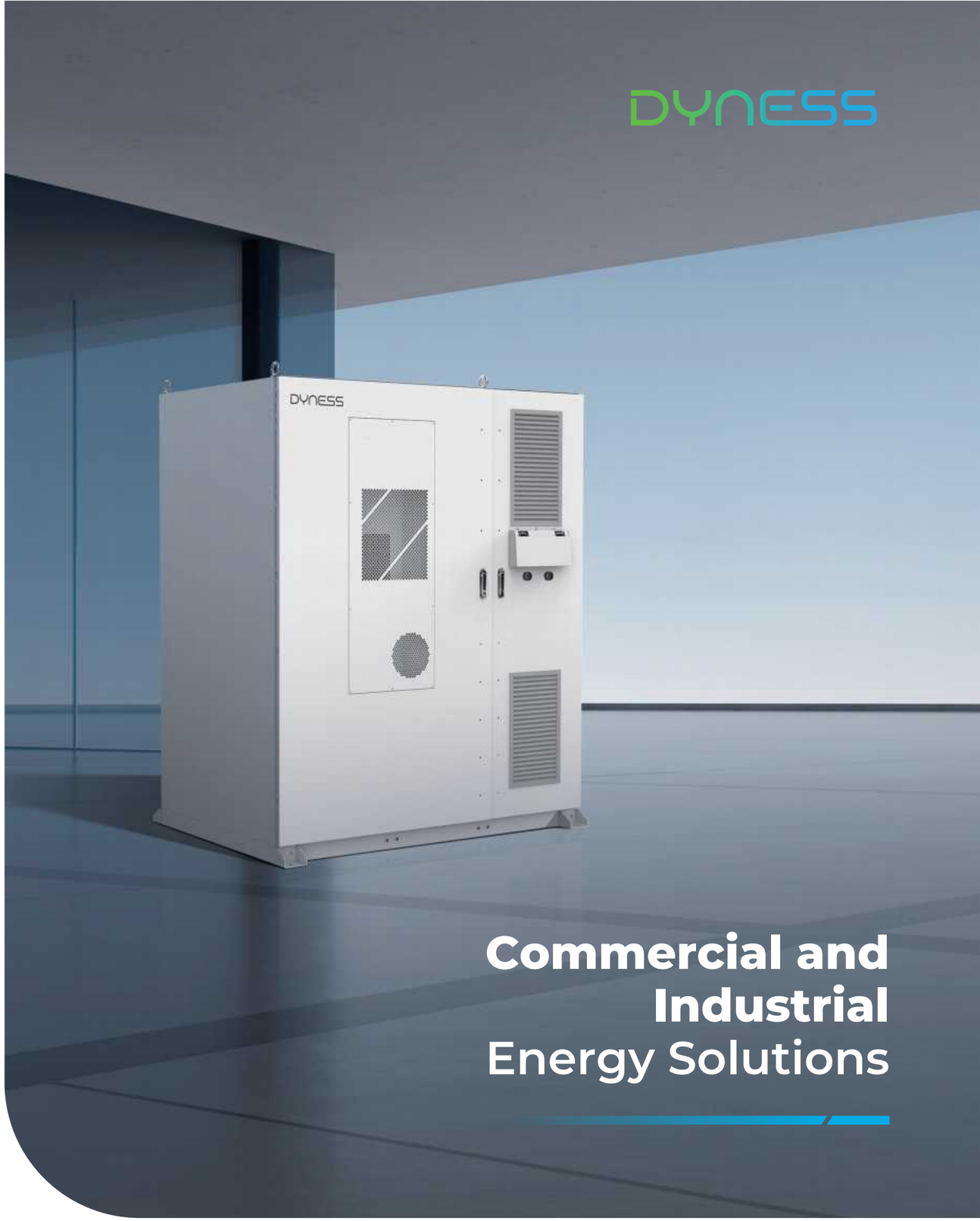
DYNESS



Commercial and Industrial Energy Solutions

Discover Your Nature

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

File version-20250228-EN Information might be subject to change without notice during product improving

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.

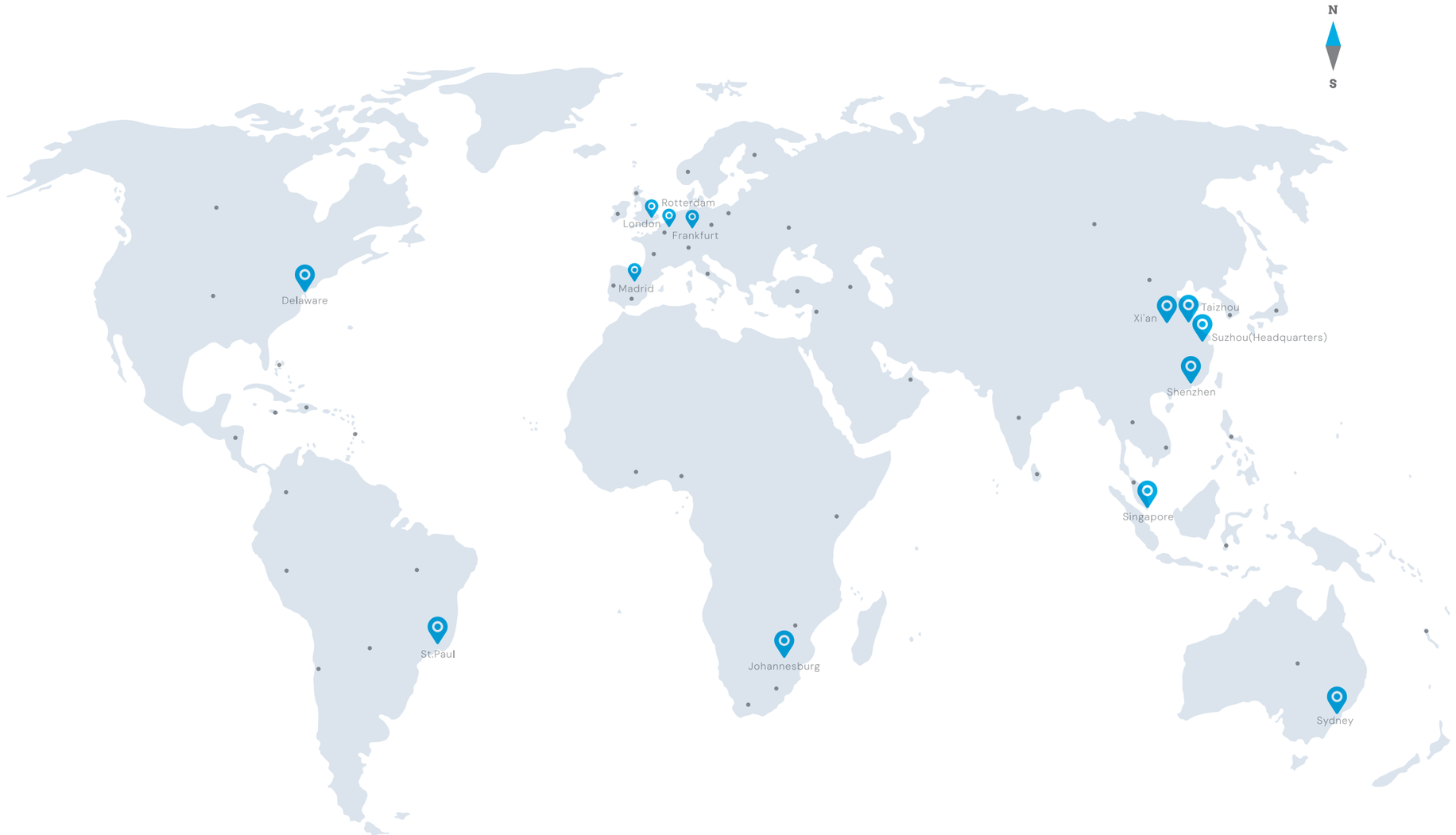
At Dyness, customer satisfaction is always Dyness' top priority. Aligned with its mission to reduce the Earth's temperature, Dyness is collaborating with 90+ global brand partners to reduce the cost of renewable energy usage for users. As the pace of global energy transition accelerates, Dyness is committed 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.

Global Footprint

The Global Pioneering Energy Storage Solutions Innovator

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

.....



Main Shipping Areas

Branches

13
Global Branches

2
Production Centres

2
R&D Centres

3GWh
Annual Production Capacity

100+
Global Markets

500,000+
Users

Commercial and Industrial Energy Storage Products

- 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

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

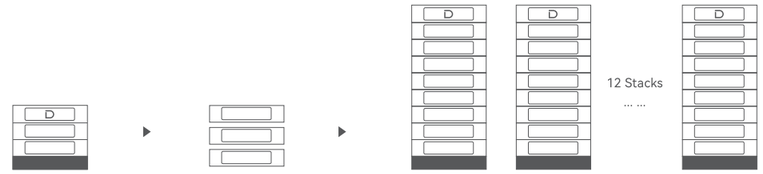
Automatic Self-heating

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

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	≥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
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 to ensure the safe and stable operation of the system.

Features and Advantages

Flexible Expansion

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

Long-term Reliability

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

Economical

Rack structure, 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

Triple-level fire suppression + 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 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.

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	$LiFePO_4$
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

BY5000

BY5000 is the first 20-foot, 5 MWh liquid-cooled energy storage system. It features a 375Ah large battery cell, a double-layer liquid-cooled PACK structural design, and a single cluster with a management string design. This system is easy to transport and install, offering customers a more efficient, safer, and smarter all-encompassing energy storage solution.

Features and Advantages

Flexible Expansion

Support DC side expansion, meet the capacity requirements of various scenarios.

Ultra Safe

Three-stage fire protection +active pressure release+explosion proof； three-stage fuse, real-time insulation check.

Long Lifetime

Double-layer liquid-cooled battery cell PACK structure design, intelligent temperature control.

IP55+C5

Ultra-high level protection, handles harsh environments such as high humidity and salt spray corrosion with ease.

Minimal O&M

Modular&non-walk-in design, battery pre-assembly, easy to install, easy to deploy, easy to maintain.

Specification

Model	BY5000
Battery	
Battery Type	LiFePO4
Battery Capacity	375Ah
Rated Current	1880A
Max. Current	2120A
PACK Configuration	1P60S
PACK Quantity	7 PACK*10 Cluster
Voltage Range	1176~1500Vdc
Nominal Capacity	5.04MWh
System	
Weight	43t (TBD)
Dimension (W/D/H)	6058/2438/3400mm (TBD)
Max. Efficiency	≥93% (TBD)
Liquid-cooling Power	60kW (Cooling) (TBD)
Temperature	-20~50℃ (Derating above 45℃)
Humidity	0~95%RH (Non-condensing)
Ingress Protection	IP55
Anti-Corrosion Grade	C5
Cooling Method	Liquid-cooling
Elevation	3000m (Derating above 2000m)
Display	Touch screen
Fire Protection	PACK/System/Water fire protection/Ventilation & Explosion protection system
Communication Protocol	4G, Modbus RTU, Modbus TCP/IP
Standards-compliant	GB/T36276, GB/T34131, IEC62619, IEC63056, IEC60730, EN61000-6-2/4, IEC 62933, UL9540A

C&I Application Cases

- **Belgium**
  DH200F

100kW/215kWh
Dynamic scaling (peak-shaving) + PV consumption (self-shaving)

- **The Netherlands**
  DH200F

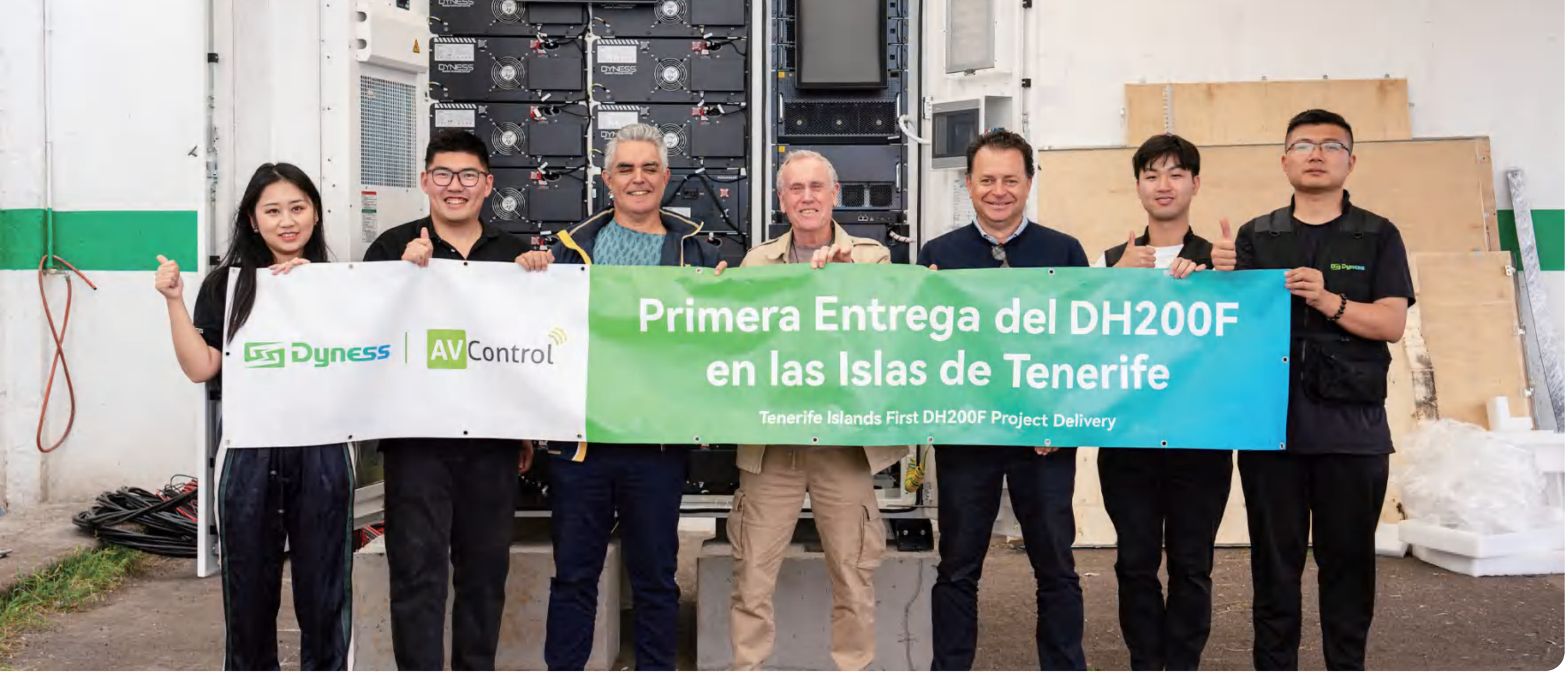
100kW/215kWh
Photovoltaic consumption (self-use)

- **Brazil**
  PowerRack HV4

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

- **Bulgaria**
  PowerRack HV4F

112.64 kWh
Peak-to-valley Arbitrage+Self-generation and Self-use



- **Spain**
  DH200F

100kW/215kWh
Emergency Power Supply + PV Consumption

- **Netherland**
  DH200F

300kW/645kWh
Dynamic Capacity Expansion + PV Consumption+Charging Pile

- **Hungary**
  DH200Y

500kW/1160kWh
Self-generation and Self-use+PV Consumption

- **China**
  DH200F

5MW/18MWh
Peak-shaving+PV Consumption

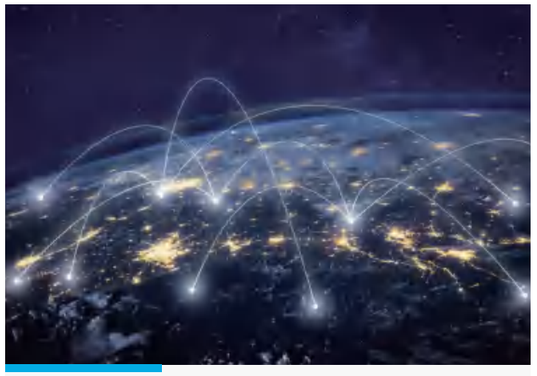
- **China**
  DH200F

100kW/215kWh
Peak-to-valley Arbitrage + Dynamic Capacity Increase

After-sales Service

Online + offline comprehensive operation and maintenance service system

+86 400 666 0655

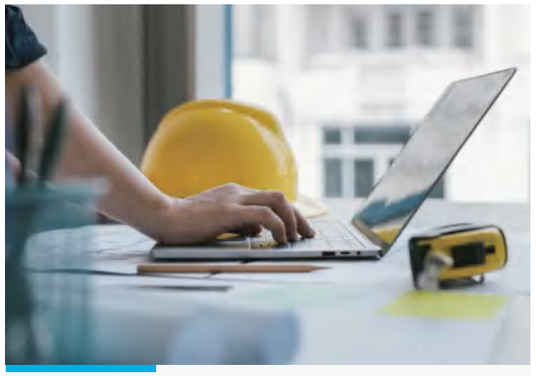


Offline

8 Supporting Languages

13 Service Center

Worldwide Service Locations



Online

Sophisticated Online Service Platform

200+ Online Service Engineer

https://support.dyness.com

Professional

Localized technical support and costomized service solutions.

Efficient

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

Responsible

Customer centricity and 98% customer satisfaction