

Energy System Solutions
For Residential and C&I

Africa

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Discover Your Nature

DYNESS

2026

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

2025

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

2023

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

2022

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

2021

- Established a subsidiary in the Netherlands

2020

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

2017

- Dyness established

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 professional and most cost-effective 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 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.

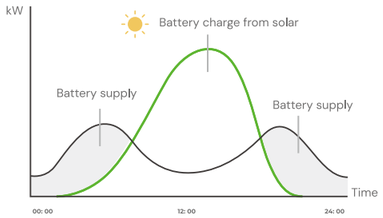
Local Spare Parts Inventory

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

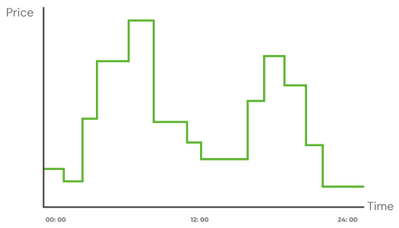
By leveraging local warehouses, we achieve fast product delivery and reduce logistics costs and lead times, while ensuring a stable supply to meet market demands.

EMPOWERING EVERY SCENARIO



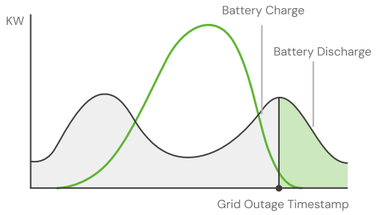
Self-Use

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.



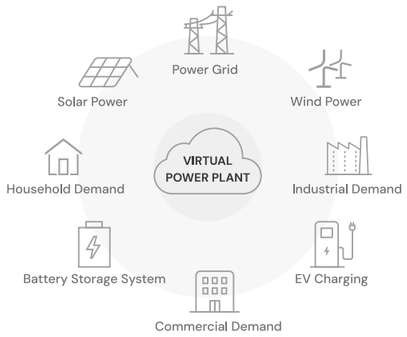
Dynamic Tariff

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.

POWER YOUR HOME WITH DYNESS ESS

Low-voltage Residential BESS

LR1.2
DL2.5
DL5.0F
PowerBrick Plus/Max/SC



Micro Energy Storage Solution

AquaVolt



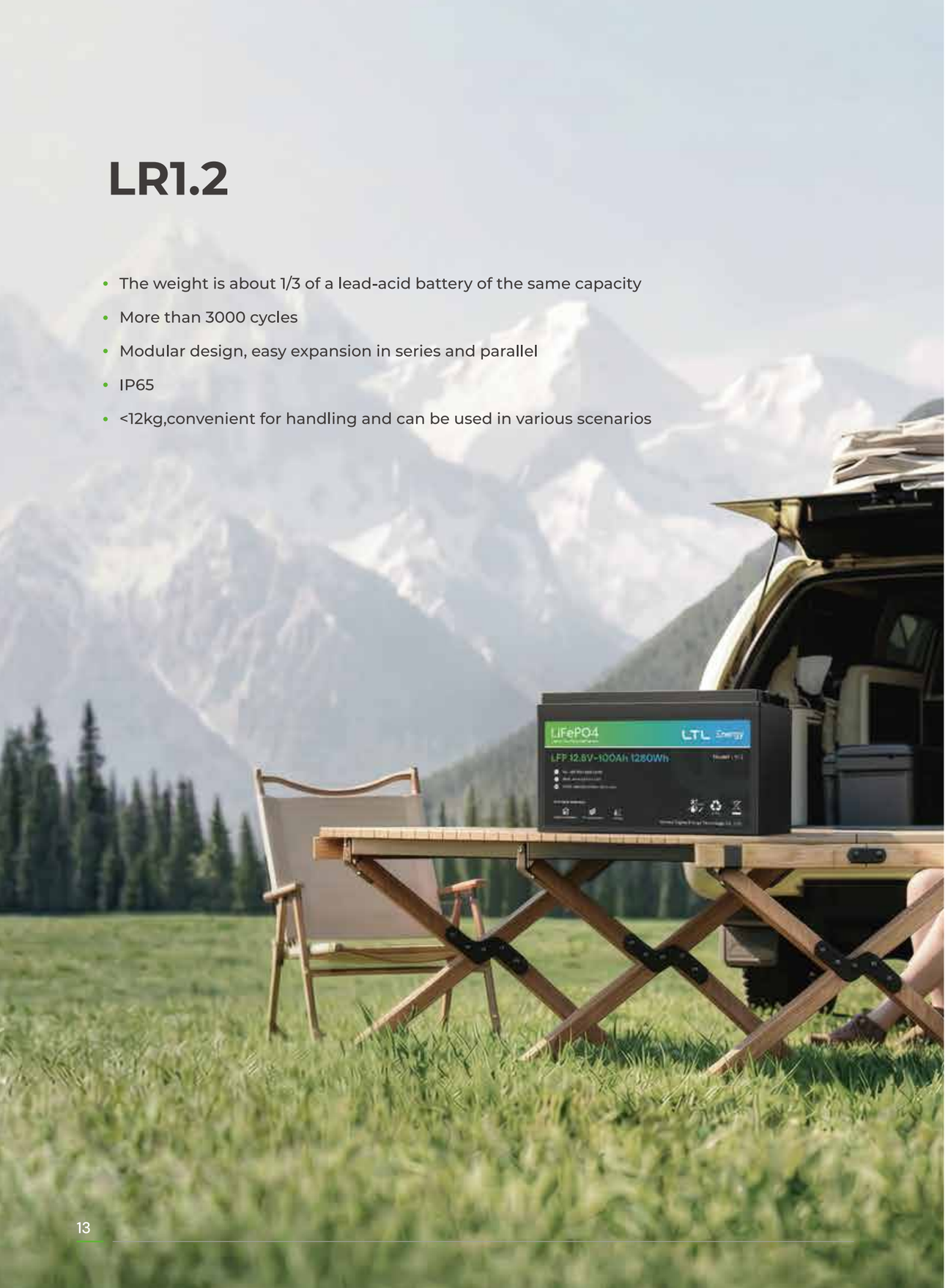
Residential Hybrid Inverter

LS Series
HT-A Series
D8.0HS/D12.0HS



LR1.2

- The weight is about 1/3 of a lead-acid battery of the same capacity
- More than 3000 cycles
- Modular design, easy expansion in series and parallel
- IP65
- <12kg,convenient for handling and can be used in various scenarios



SPECIFICATION

Model	LR1.2
Battery type	$LiFePO_4$
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	≥3000 cycles
Expansion	4 in series and parallel
Certification & Safety Standard	UN38.3



DL2.5

- 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
- Real-time system monitoring, remote control, OTA updates (Optional)

SPECIFICATION

Model	DL2.5
Battery Type	$LiFePO_4$
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
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
- 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°C~55°C
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 (optional)
Safety Protection	Built-in aerosol fire extinguisher
Installation [2]	wall-mounted, floor-standing, flexible bracket, rack-mounted
Expansion	Up to 50 units in parallel
Warranty Period [3]	7 Years / 10 Years(Optional)
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 etc.

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

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

[3] Refer to Dyness Warranty Letter

PowerBrick Series

- 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°C~55°C		
Discharge Temp. Range	-20°C~55°C		
Net Weight	117kg	116kg	116kg
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		
Warranty Period [2]	10 Years		
Certification & Safety Standard	UN38.3/IEC62619		
Compatible Inverters	SMA/Victron Energy/Ingeteam/Solis/GoodWe/Growatt/ Solplanet/Luxpower/Deye/Sungrow etc.		

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

[2] Refer to Dyness Warranty Letter



AquaVolt

Plug-in AC-coupled Energy Storage Solution

- 3600W continuous output in off-grid mode for emergency applications
- Easy installation, Plug & play, DIY setup
- AC-Coupled Design: Compatible with 99% micro inverters
- Smart Scheduling with TOU & Dynamic Tariffs
- Zero energy waste with P1, IR or smart meter
- UPS-level transfer within 10 ms, 8000+ cycles, IP65 protection rating

SPECIFICATION

Model	D2.5LAC-5	D3.6LAC-5
BATTERY		
Battery Type	$LiFePO_4$	
Nominal Energy (kWh)	5.12	
Nominal Capacity (Ah)	100	
Battery Voltage range (Vd.c.)	44.8–57.6	
Nominal Voltage (Vd.c.)	51.2	
Max. Battery Voltage (Vd.c.)	57.6	
Cycle Life [1]	≥8000	
Depth of Discharge (DOD)	95%	
OFF-GRID		
Nominal Output Voltage (Va.c.)	230	
Nominal Off-Grid Output Power (W)	2500	3600
Max. Off-Grid Apparent Power (VA) [2]	3600	4000
Nominal Output Frequency (Hz)	50/60	
Max. Efficiency (%)	94.9%	
Max. Power from Microinverter (W)	800	
Over-Voltage Protection	YES	
Short-Circuit Protection	YES	
Over-Temperature Protection	YES	
ON-GRID		
Nominal Output Power to Grid (W)	800	3600
Nominal Apparent Power to Grid (VA)	800	3600 [3]
Max. Apparent Power to Grid (VA)	2500 [3]	3600 [3]
Max. Power from Grid (Battery + Bypass) (W)	2500	4600
Grid Connection	L+N+PE	
Nominal Output Frequency (Hz)	50/60	
Nominal Output Voltage (Va.c.)	230	
Power Factor	0.8 Leading ~ 0.8 Lagging (Adjustable)	
THDi (at Nominal Power)	<3%	
Nominal AC Current to Grid (Aa.c.)	3.5	15.7
Max. AC Current to Grid (Aa.c.)	10.9	15.7
BACKUP PERFORMANCE		
Grid-to-Off-Grid Transfer Time (ms)	≤10	
Off-Grid-to-Grid Transfer Time (ms)	≤10	
GENERAL DATA		
Dimensions (W×H×D, mm)	560×650×185	
Weight (kg)	65	
IP Rating	IP65	
Display	LCD / APP / Web	
Communication	Wi-Fi / Bluetooth / LAN / RS485	
Topology	High-Frequency Isolated Topology	
Noise (dB)	<35	
Operating Temperature Range (°C)	-20–55	
Relative Humidity (%)	0–95%	
Altitude (m)	≤3000	
Cooling Method	Natural Cooling	
Overvoltage Category	DC II, AC III	
Protective Class	Class I	
CERTIFICATIONS & STANDARDS		
Grid Regulation	EN 50549-1/10, VDE-AR-N4105	
Safety Regulation	IEC/EN62477-1, EN 18031-1, IEC/EN62619, UN38.3	
EMC	IEC/EN 61000-6-1/3, EN 301489-1/17, EN 300328, EN 62311	

[1] Test conditions: 0.2C charge/discharge at 25°C, 95% DoD, 70% EOL.

[2] Model D2.5LAC-5: Capable of long-term off-grid output up to 3.6 kW.
Model D3.6LAC-5: Capable of off-grid output up to 4 kW for 1 minute.

[3] Higher output power available under specific configurations (subject to local regulations)

LS Series

LV Single Phase Hybrid Inverter

- CT phase sequence self-correcting
- Max.16pcs parallel for on-grid and off-grid operation
- Support multiple batteries parallel and generator charging
- Automatic communication with battery BMS without manual setup
- High precision zero export control
- Colorful touch LCD , IP66 protection
- UPS-level transfer within 4 ms



Model	D3.0K-LS	D3.6K-LS	D5.0K-LS	D6.0K-LS	D8.0K-LS
Battery Input Data					
Battery Type	Lead-acid/Li-Ion				
Battery Voltage Range(V)	40-60				
Nominal Battery Voltage (V)	48	48	48	48	48
Max.Charge/Discharge Current(A)	70	90	120	140	160
Max.Charge/Discharge Power(W)	3000/3300	3600/3960	5000/5500	6000/6600	8000/8800
PV String Input Data					
Max.PV Input Power(W)	6000	7200	10000	12000	16000
Max.PV Input Voltage(V)	600				
Working Voltage Range(V)	50~550				
First Feed-in Voltage(V)	60				
MPPT Range For Nominal Power(V)	100~500	120~500	150~500	180~500	180~500
Nominal PV Input Voltage(V)	380				
Max.Input Currrent(A)	20/20	20/20	20/20	20/20	20/40
Max.Short Currrent(A)	27/27	27/27	27/27	27/27	27/54
No.of MPP Trackers	2	2	2	2	2
Strings per MPP Tracker	1	1	1	1	1+2
AC Output Data(On-grid Port)					
Nominal Power Output To Grid(VA)	3000	3600	5000	6000	8000
Max.Power Output To Grid(VA)[1]	3300	3960	5500	6600	8800
Max.Power From Grid (VA)	8400	8400	10000	12000	12000
Nominal Output Voltage(V)	220/230/240,L/N/PE				
Nominal Output Frequency(Hz)	50/60				
Nominal AC Current To Grid(A)	13.7/13.1/12.5	16.4/15.7/15	22.8/21.8/20.9	27.3/26.1/25	36.4/34.8/33.4
Max.AC Current To Grid(A)	15	18	25	30	40
Max.AC Current From Grid(A)	35	35	40	50	50
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging				
Output THDi (Nominal Power)	<3%				
AC Output Data (Back-up Port)					
Max.Continous Output Power(VA)	3300	3960	5500	6600	8800
Peak Output Power(VA)[2]	6000 @10s	7200 @10s	10000 @10s	12000 @10s	16000 @10s
Max.Output Current (A)	15	18	25	30	40
Nominal Output Voltage(Vac)	220/230/240,L/N/PE				
Nominal Output Frequency(Hz)	50/60				
Output THDv (@Linear Load)	<3%				
Switch time	<4ms				
AC Input Data (Generator Port/Load Control Port)					
Nominal Input Apparent Power(VA)	3000	3600	5000	6000	8000
Max. Input Apparent Power(VA)	8400	8400	10000	12000	12000
Max. AC Input Current(A)	35	35	40	50	50
Nominal Input Voltage(V)	220/230/240,L/N/PE				
Nominal AC Generator Frequency(Hz)	50/60				
Efficiency					
Max.efficiency	97.60%				
Euro.efficiency	96.50%				
Protection					
Anti-island Protection	Integrated				
PV Insulation Resistance Detection	Integrated				
PV Reverse Protection	Integrated				
Residual Current Monitoring Unit	Integrated				
AC Over Current/Voltage Protection	Integrated				
DC Switch(PV)	Integrated				
Surge Protection	DC TypeIII/AC TypeIII				
Communication Interface					
Battery BMS	CAN				
EMS(Modbus)	RS485				
Meter(Outside)	RS485				
RCR/DRED	YES(DI)				
Remote Shut Down	YES(DI)				
Dry-Point	YES(DO)				
Cloud	Wi-Fi,LAN				
Display/User Interface	LED/LCD/APP				
General Data					
Operating Temperature Range(°C)	-30-60				
Relative Humidity(%)	0-100%				
Operating Altitude(m)	≤3000				
Cooling	Natural Convection				Intelligent Air Cooling
Noise(dB)	<30				40
Weight(kg)	17				
Size(W/H/D)(mm)	501*586*193				
Installation	Wall-Mounted				
Protection Degree	IP66				
Certifications&Standards					
Grid Regulation	EN50549, NRS097, G98, G99, IEC61727, IEC62116				
Safety Regulation	IEC/EN62109-1&2				
EMC	IEC/EN61000-6-1/2/3/4				

[1] According to the local grid redgulation

[2] Can be reached only if PV and battery power is enough

HT-A Series

HV three-phase hybrid inverter

- CT phase sequence self-correcting
- Energy can transfer between phases replacing shutdown
- Three phase balance & unbalance output
- Support Modbus TCP/RTU & Sunspec protocols
- Remote cloud parameter settings avoid installers back to site
- High precision zero export control
- Supports 10 parallel to expansion capacity
- Automatic communication with battery BMS without manual setup



Model	D6K-HT-A	D8K-HT-A	D10K-HT-A	D12K-HT-A	D15K-HT-A
Battery Input Data					
Battery Type	lithium battery				
Battery Voltage Range(V)	120-750				
Nominal Battery Voltage (V)	600	600	600	600	600
Max.Charge/Discharge Current(A)	40/40	40/40	40/40	40/40	40/40
Max.Charge/Discharge Power(W)	9000/6600	12000/8800	15000/11000	18000/13200	22500/16500
PV String Input Data					
Max.PV Input Power(W)	12000	16000	20000	24000	30000
Max.PV Input Voltage(V)	1000				
Working Voltage Range(V)	80-950				
First Feed-in Voltage(V)	100				
Nominal PV Input Voltage(V)	750				
Max.Input Currrent(A)	20	20	20	20	20
Max.Short Currrent(A)	30	30	30	30	30
No.of MPP Trackers	2	2	3	3	3
Strings per MPP Tracker	1	1	1	1	1
AC Output Data (On-grid Port)					
Nominal Power Output To Grid(VA)	6000	8000	10000	12000	15000
Max.Power Output To Grid(VA)	6000	8000	10000	12000	15000
Max.Power From Grid (VA)	12000	16000	20000	20000	20000
Nominal Output Voltage(V)	400/380,3L/N/PE				
Nominal Output Frequency(Hz)	50/60				
Nominal AC Current To Grid(A)	9.1	12.1	15.2	18.2	22.7
Max.AC Current To Grid(A)	9.1	12.1	15.2	18.2	22.7
Max.AC Current From Grid(A)	15.7	21	26.1	26.1	26.1
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging				
Output THDi (Nominal Power)	<3%				
Three Phase Unbalance	YES				
AC Output Data (Back-up Port)					
Max.Continous Output Power(VA)	6000	8000	10000	12000	15000
Peak Output Power(VA)	12000 @1min	16000 @1min	18000 @1min	18000 @1min	18000 @1min
Max.Output Current (A)	13.6(17.4 @1min)	18.2(23.2 @1min)	22.7(26.1 @1min)	22.7(26.1 @1min)	22.7(26.1 @1min)
Nominal Output Voltage(Vac)	220/380,230/400,3L/N/PE				
Nominal Output Frequency(Hz)	50/60				
Output THDv (@Linear Load)	<3%				
Switch time	<10ms				
Efficiency					
Max.efficiency	98.10%	98.10%	98.20%	98.20%	98.20%
Euro.efficiency	97.30%	97.30%	97.60%	97.60%	97.60%
Protection					
Anti-island Protection	Integrated				
PV Insulation Resistance Detection	Integrated				
PV Reverse Protection	Integrated				
Battery Reverse Protection	Integrated				
Residual Current Monitoring Unit	Integrated				
AC Over Current/Voltage Protection	Integrated				
DC Switch(PV)	Integrated				
Surge Protection	DC TypeII/AC TypeIII				
Communication Interface					
Battery BMS	CAN				
EMS(Modbus)	RS485				
Meter(Outside)	RS485				
RCR/DRED	YES(DI)				
Remote Shut Down	YES(DI)				
Dry-Point	YES(DO)				
Cloud	Wi-Fi,LAN				
Display/User Interface	LED/LCD/APP				
General Data					
Operating Temperature Range(°C)	-30-60				
Relative Humidity(%)	0-100%				
Operating Altitude(m)	≤3000				
Cooling	Smart Fan Cooling				
Noise(dB)	<40			<45	
Weight(kg)	27.2				
Size(W/H/D)(mm)	500*585*212				
Installation	Wall-Mounted				
Protection Degree	IP66				
Certifications&Standards					
Grid Regulation	EN 50549-1, CEI 0-21,AS 4777.2,UNE217001,UNE2170002,NTS Type A				
Safety Regulation	IEC/EN 62109-1&2				
EMC	IEC/EN 61000-6-1/2/3/4				

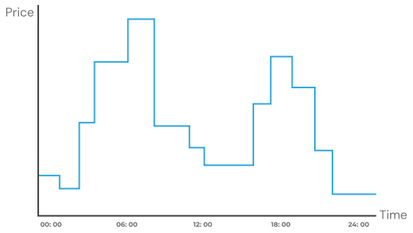
D8.0HS-D12.0HS

- 4 MPPT：60-550V wide MPPT voltage range, 150% PV overload
- No Black Out：UPS≤10ms, ensuring the stability of household electricity consumption
- Ultra Safe:DC&AC side secondary lightning protection, built-in AFCI, supports DC Arc detection
- IP65 Protection:Fearless of outdoor installation, strong environmental adaptability
- Generator Connectivity:Extreme backup capability, powers loads and charges the battery
- Intelligent O&M:Real-time system monitoring and OTA updates



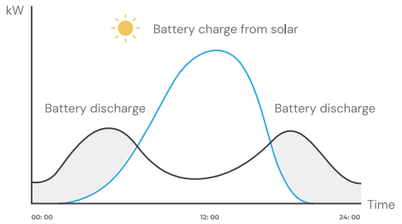
Model	D8.0HS	D12.0HS
Battery Input Data		
Battery Type	$LiFePO_4$	
Battery Voltage Range (V)	80~490	
Max.Charge/Discharge Current (A)	40/40	
Max.Charge/Discharge Power (W)	8800	13200
PV String Input Data		
Max.PV Input Power (W)	12000	18000
Max.PV Input Voltage (V)	600	
MPPT Range (V)	60~550	
SPS Start-up Voltage (V)	60	
MPPT Range For Nominal Power (V)	200~500	200~500
Nominal PV Input Voltage (V)	390	
Max.Input Current (A)	16	
Max.Short Crrent (A)	23	
No.of MPPTrackers	3	4
Strings Per MPPTracker	1	
AC Output Data (On-grid)		
Nominal Power Output To Grid (VA)	8000	12000
Max.Power Output To Grid (VA)*	8000	12000
Max.Power From Grid (VA)	8000	12000
Nominal Output Voltage (V)	230	
Nominal Output Frequency (Hz)	50	
Nominal.AC Current To Grid (A)	34.8	52.2
Max.AC Current From Grid (A)	34.8	52.2
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging	
Output THDi (Nominal Power)	<3%	
AC Output Data (Back-up)		
Norminal. Output Power(VA)	8000	12000
Peak Output Power(VA)	12000,10s	16000,10s
Rated. Output Current(A)	34.8	52.2
Nominal Output Voltage (Vac)	230	
Nominal Output Frequency (Hz)	50	
Output THDv (@Linear Load)	<3%	
Switch Time	＜10ms	
Generator Input	Yes	
Efficiency		
MPPT Effciency	99.9%	
Max.Effciency	97.5%	
Protection		
Anti-island Protection	Integrated	
PV & Battery AFCI	Integrated	
PV Reverse Protection	Integrated	
Battery Reverse Protection	Integrated	
Residual Current Monitoring Unit	Integrated	
Over Current/Voltage Protection	Integrated	
DC Switch(PV)	Integrated	
Surge Protection	DC Type II /AC Type III	
Communication Interface		
Battery BMS	CAN	
EMS	RS485	
Meter	RS485	
E-Stop	YES (DI)	
Dry-Point	YES (DO)	
Cloud	Wi-Fi.Bluetooth	
Display/User Interface	LED/APP	
General Data		
Operating Tenperature Range (F)	-13-140(-25-60°C)	
Relative Humidity (%)	0-100%	
Operating Altitude (m)	3000m	
Cooling	Nature Cooling	
Noise (dB)	<35	
Weight (kg)	30	
Size(W/H/D)(mm)	486/730/210	
Installation	Wall-Mounted	
Endosure Type	IP65	
Certifications & Standards		
Grid Regulation	NRS 097	
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2	
EMC	IEC/EN 61000-6-1/2/3/4	

BEYOND STORAGE, EMPOWER BUSINESS



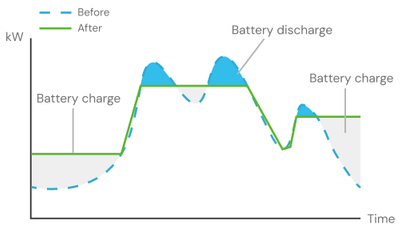
Dynamic Tariff

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

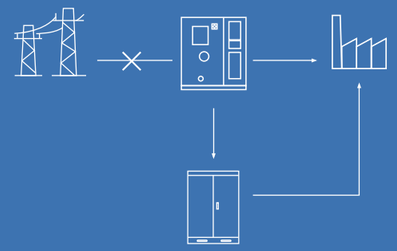
When the PV system generates sufficient electricity, the produced power is prioritized to supply the load. Any excess energy is stored in the battery for later use when the PV system's generation is insufficient to meet the load demand.



Peak Shaving / Demand Management

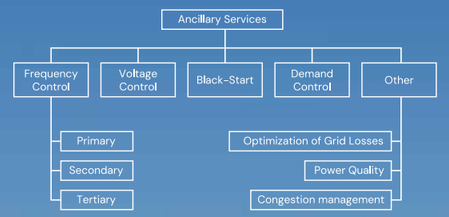
The peak shaving solution serves primarily for dynamic capacity enhancement. It performs load smoothing to resolve the constraint of limited transformer power rating.

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



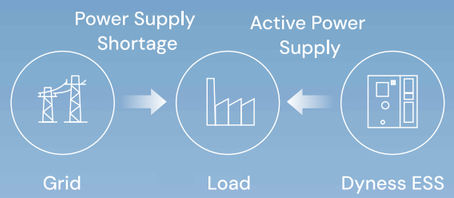
Emergency Power Backup

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



STACK314

Air-cooling Battery Cabinet



BF100-C140



BF200-C260

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



DH200F-C260



STACK100

Modular Stackable HV Battery

- 5.12kWh / Module, 76.8kWh / Cluster, Parallel up to 921kWh
- 100A charge/discharge current
- Cable free connection between modules, plug-and-play, one cluster installation in 30min
- Free mixing of modules within three years
- Built-in aerosol fire extinguisher

Model	STACK100
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℃)	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
Discharge Temp. Range	-20°C~55°C
Net Weight (kg)[1]	22+47*n
Single Cluster Dimension (W/D/H)[2]	590/390/233+133*n
Protection Level	IP20
Communication	CAN/RS485
Cycle Life[3]	≥6000 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
Warranty Period[4]	10 Years
Battery Module Name	S51100
Certification & Safety Standard	CE-EMC/CE-RED/IEC62619/63056/62477/62040/UN38.3/ VED2510/CEI 0-21/CEI 0-16
Compatible Inverters	KOSTAL/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/ Deye/Hoymiles/Solinteg etc.

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

[2] Height of Expansion Upper Cover: 70mm

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

[4] Refer to Dyness Warranty Letter

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

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
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
Warranty Period [4]	10 Years
Battery Module Name	S51314
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619
Compatible Inverters	ATESS/Deye/Growatt/Megarevo/Solinteg/Solis/Sosen/Sinexcel 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

[4] Refer to Dyness Warranty Letter

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*2350mm	
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/BIuetooth/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）	
Off-grid AC Side (Optional)		
Rated Power	124.9kW	125kW
AC Rated Voltage	400Vac	
AC Maximum Current	200A	
Wiring method	3P4L+PE	
Frequency	50Hz/60Hz	
Unbalanced Load	100%	
THDv	＜3% (Linear load)	
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-N4105/4110/4120, (EU) 2023/1542	

RESIDENTIAL APPLICATION CASES



Austria

PowerBrick
57.32 kWh ESS Capacity



Namibia

DL5.0C Pro
10.24 kWh ESS Capacity



India

Tower Pro TP11
11.52 kWh ESS Capacity



Palestine

PowerBrick SC
32.14 kWh ESS Capacity



Romania

Powerbox G2
20.48 kWh ESS Capacity



Nigeria

PowerBrick SC
48.228 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



South Africa
798.72 kWh ESS Capacity
STACK100



Germany
532 kWh ESS Capacity
STACK100