

DYNNESS



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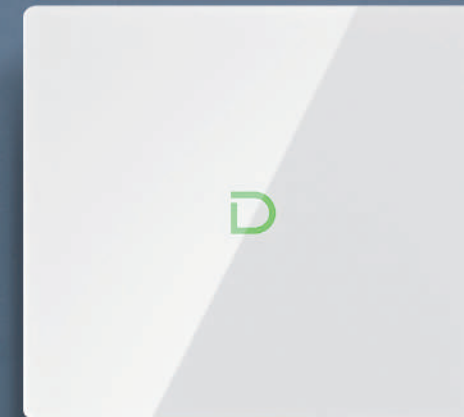
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DYNNESS



Energy Storage System Solutions

Discover Your Nature

For Africa

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 over 500,000 users in 100+ countries and regions.

At Dyness, customer satisfaction is always Dyness' top priority. Aligned with its mission to reduce the Earth's temperature, Dyness is collaborating with 90+ global brand partners to reduce the cost of renewable energy usage for users. As the pace of global energy transition accelerates, Dyness is committed to promoting sustainable development on a global scale through commercial deepening. It strives to work alongside the industry, market and society to build a low-carbon future worldwide.

• Mission

Driving digital energy development, reducing the cost of energy acquisition, and lowering Earth's temperature.

• Vision

Achieving customer priority, enabling the advancement of global sustainable pursuits, and striving to become a better version of oneself.

• Values

Be True Be Pragmatic Be Excellent Be Altruistic



Global Footprint

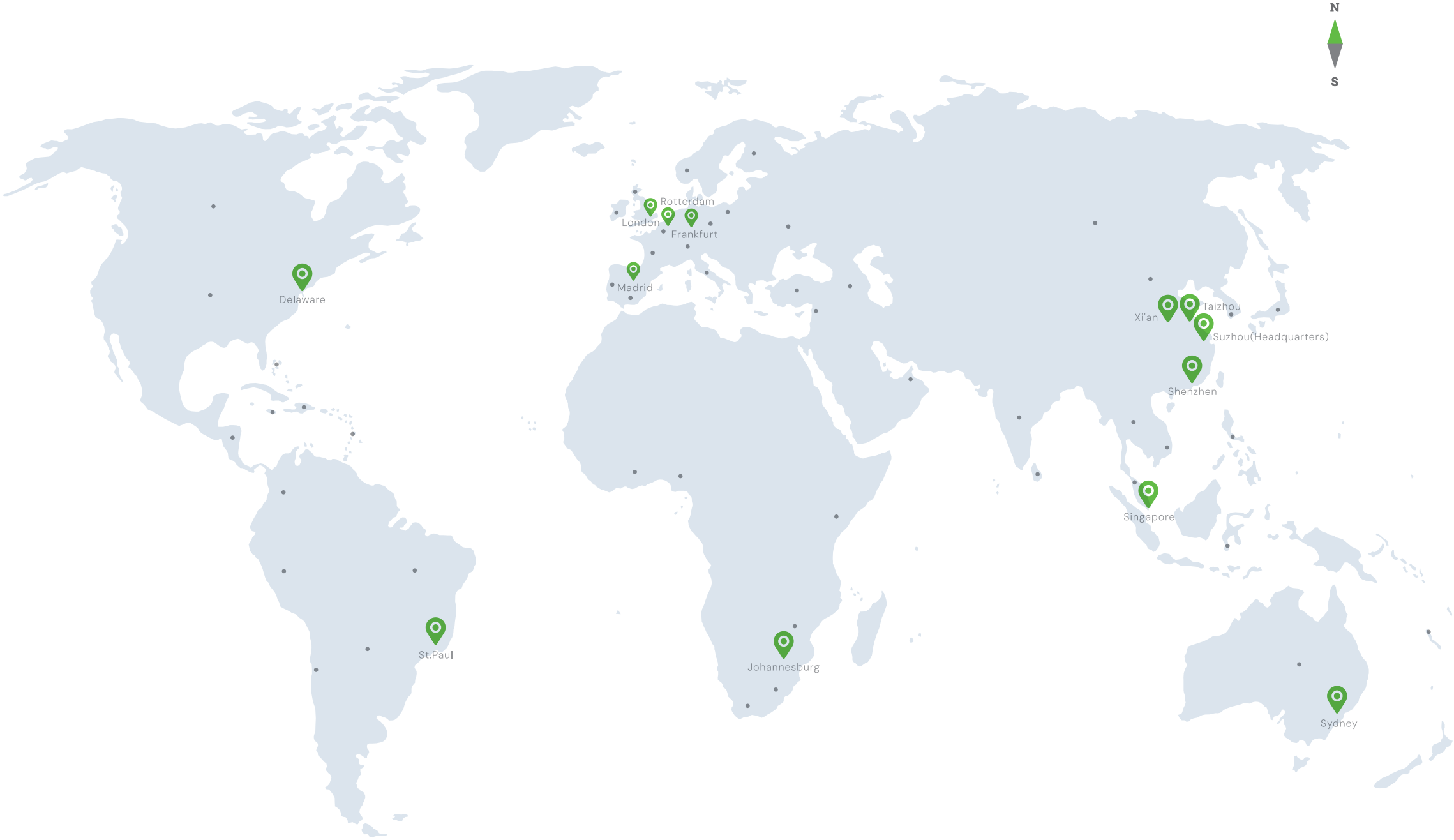
The Global Pioneering Energy Storage Solutions Innovator

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

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● Main Shipping Areas

📍 Branches



13

Global Branches

2

Production Centres

2

R&D Centres

3GWh

Annual Production Capacity

100+

Global Markets

500,000+

Users

Residential Energy Storage Products



Ultra Safe



Flexible Expansion



Easy Installation



Smart Management



Perfect Compatibility



LR1.2

DYNESS LR1.2 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.

Flexible Module

Module design, easy expansion in series and parallel

Easy Installation

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

Long Service Life

More than 3000 cycles

High Protection Level

IP65

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 *	≥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

DL2.5

DL2.5 is a low-voltage lithium energy storage battery designed for home applications. It supports up to 16 parallel units to reach an energy range from 2.56kWh to 40.96kWh. 1.3C discharge rate, it provides strong power for home electricity, with high safety, high performance, and high return on investment.



Features and Advantages

- Flexible Expansion**
Up to 16 units in parallel,
2.56kWh--40.96kWh capacity
- Easy Installation**
30% less volume, high space utilization
- Battery Equalization**
Supports for mixing modules under
different SOC
- 1.3C Discharge**
Simultaneously supplying power to multiple
loads, no need to worry about power outages
- All-round Safety**
Short-circuit lockout, surge-resistant,
safe and reliable
- Smart Management**
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
Dimension(W/D/H, mm)	481/221/133
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	Growatt /Victron/MUST/Steca/Sorotec/SRNE/SOSEN/TBB
Certification	UN38.3/CE-EMC/IEC62619/ECE R10/GOST-R

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

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

Long-term Reliability

LFP cells, 6000+ cycles

All-round Safety

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

1C Discharge

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

Easy Installation

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

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
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life *	≥6000 Cycles
Protection Level	IP20
WIFI Module	Optional
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CEI-021/GOST-R
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Soplanet/Luxpower/DEYE etc.

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

DL5.0C Pro

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



Features and Advantages

- Flexible Expansion**
Up to 50 units in parallel,
5.12kWh--256kWh capacity
- Easy Installation**
Support wall-mounted, floor-mounted
installations, high space utilization
- Smart Management**
Real-time system monitoring, remote
control, OTA updates
- 1.2C Discharge (10min)**
Output 1.2C for 10 min to support peak loads,
no worry about random peak powers
- Ultra Safe**
Intelligent fire extinguishing system, detects
and extinguishes fire in 5s

Specification

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

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

Long-term Reliability

8000 cycle lives, more usable energy

Easy Installation

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

Ultra Safe

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

1C Discharge

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

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
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
Cycle Life *	≥8000 Cycles
Protection Level	IP65
Expansion	Up to 50 units in parallel
Color	White
WIFI Module	Built-in WiFi module; APP OTA function
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/Luxpower/DEYE etc.

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

Powerbox Pro

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



Features and Advantages

Flexible Expansion

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

IP65 Protection

Fearless of outdoor insatallition, strong
environmental adaptability

All-round Safety

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

Easy Installation

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

Battery Equalization

Supports for mixing modules under
different SOC

Specification

Model	Powerbox Pro
Battery Type	LiFePO ₄
Nominal Battery Energy	10.24 kWh
Operating Voltage	44.8~57.6V
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Nominal Power	5.12kW
Peak Power	10.24kW
Recomended Charge & Discharge C Rate	0.5C
Recommended Charge/Discharge Current	100A
Recommended Depth of Discharge (DOD)	90%
Net Weight	103kg
Dimension[W/D/H]	555/210/928 mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
WIFI Module	Optional
Cycle Life *	≥6000 Cycles
Protection Level	IP65
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC62040/UKCA/CEC
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Soplanet/Luxpower/DEYE etc.

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

PowerBrick

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



Features and Advantages

Flexible Expansion

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

Ultra Safe

Intelligent fire extinguishing system,
react within 5 seconds

Long-term Reliability

LFP cells, 8000+ cycles,

No Black Out

Maximum discharge current: 200A, simultane-
ously 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
Max. Discharge Current	200A
Peak Discharge Current	300A (2mins, 25°C)
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life*	≥8000 cycles
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

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
- Easy Installation**
0 wiring, plug&play, allow one people to install
- IP54 Protection**
Indoor&outdoor installations
- 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-Q21				
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

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
- 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 Current(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			

DYNE

3.6/5.0/6.0/8.0L-1P-A

The DYNE 3.6/5.0/6.0/8.0L-1P-A series is designed for residential hybrid systems. The inverter can work with Dyness low-voltage lithium-ion battery DL5.0C/ Powerbox Pro to maximize self-consumption and provide backup power if the grid fails and there is not enough PV power to cover load demand.



Features and Advantages

- Generator Connectivity**
Generator connectivity with multiple input methods and automatic generator On/Off control
- Customizable Settings**
6 customizable charge/discharge time settings,Up to 135A(3.6/5.0/6.0K) and 190A (8.0K) max charge/discharge current
- No Black Out**
Automatic UPS switching <4ms, ensuring the stability of household electricity consumption
- Surge Power Backup Capability**
10 seconds 200% surge power backup overload capability
- Peak Shaving Control**
Supports peak shaving control in both "self-use" and "generator" mode
- Flexible Connection**
Supports 1ph and 3ph flexible connection

Specification

Model	3.6L-1P-A	5.0L-1P-A	6.0L-1P-A	8.0L-1P-A
Input DC (PV side)				
Recommended max. PV power	5.76 kW	8 kW	9.6 kW	12.8 kW
Max. input voltage	600 V			
Rated voltage	330V			
Start-up voltage	90V			
MPPT voltage range	90 – 520 V			
Max. input current	16 A / 16 A			32A/20A
Max. short circuit current	24 A / 24 A			36A/30A
MPPT number/Max. input strings number	2/2			2/3
Battery				
Battery type	LiFePO4			
Battery voltage range	40 – 60 V			
Max. charge/discharge power	3.6 kW	5 kW	6 kW	8 kW
Max. charge/discharge current	80 A	112 A	135 A	190 A
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	3.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	4 kVA	5.5 kVA	6.6 kVA	8.8 kVA
Operation phase	1 / N / PE			
Rated grid voltage	220 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	16.4 A / 15.7 A	22.7 A / 21.7 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. output current	20 A	25 A	30 A	40 A
Power factor	>0.99 (0.8leading – 0.8lagging)			
Input AC (Grid side)				
Input voltage range	187-253 V			
Max. input current	25 A	32 A	40 A	50 A
Frequency range	45-55 Hz/55-65 Hz			
Output AC (Back-up)				
Rated output power	3.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	2 times of rated power, 10s			
Back-up switch time	<4ms			
Rated output voltage	1/N/PE, 220 V/230 V			

Model	3.6L-1P-A	5.0L-1P-A	6.0L-1P-A	8.0L-1P-A
Rated frequency	50 Hz/60 Hz			
Max. output current	20 A	25 A	30 A	40 A
THDv (@linear load)	<2%			
Efficiency				
Max.efficiency	>96.9%			
EU efficiency	>96.5%			
Protection				
DC reverse-polarity protection	Yes			
Ground fault monitoring	Yes			
Integrated AFCI(DC arc-fault circuit protection)	Yes			
Protection class/Over voltage category	I/II (PV and BAT), III (MAINS and BACKUP and GEN)			
General Data				
Dimensions(W/H/D)	406/560/205mm			406/560/215 mm
Weight	24 kg			26kg
Topology	High frequency isolation (for battery)			
Operating ambient temperature range	- 40 - 60 °C			
Ingress protection	IP66			
Cooling concept	Natural convection		Intelligent redundant fan-cooling	
Max.operation altitude	4000m			
Certification & Standard	NRS 097-2-1, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 plug (PV port)/ Terminal Block (BAT port)			
AC connection	Terminal Block			
Display	LED + APP			
Communication	RS485, CAN, Optional: Wi-Fi, LAN			

D8.OHS/D12.OHS

D8.OHS/D12.OHS is an inverter designed for hybrid power systems, with 4-channel MPPT input and high efficiency of PV conversion. It also supports 150% PV overload, and a UPS switching time ≤ 10ms, to protect uninterrupted home power.



Features and Advantages

- 4 MPPT**

60-550V wide MPPT voltage range, 150% PV overload
- Ultra Safe**

DC&AC side secondary lightning protection, built-in AFCI, supports DC Arc detection
- Generator Connectivity**

Extreme backup capability, powers loads and charges the battery
- No Black Out**

UPS<10ms, ensuring the stability of household electricity consumption
- IP65 Protection**

Fearless of outdoor insatallition, strong environmental adaptability
- Intelligent O&M**

Real-time system monitoring and OTA updates

Specification

Model	D8.OHS	D12.OHS
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
NominalPVInputVoltage (V)	390	
Max.Input Current (A)	16	
Max.Short Crrent (A)	23	
No.of MPPTTrackers	3	4
Strings per MPPTTracker	1	
AC Output Data (On-grid)		
Nominal Power Output To Grid (VA)	8000	12000
Max.Power Outpur 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	

Model	D8.OHS	D12.OHS
Generator input	Yes	
Efficiency		
MPPT efficiency	99.9%	
Max.efficiency	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	



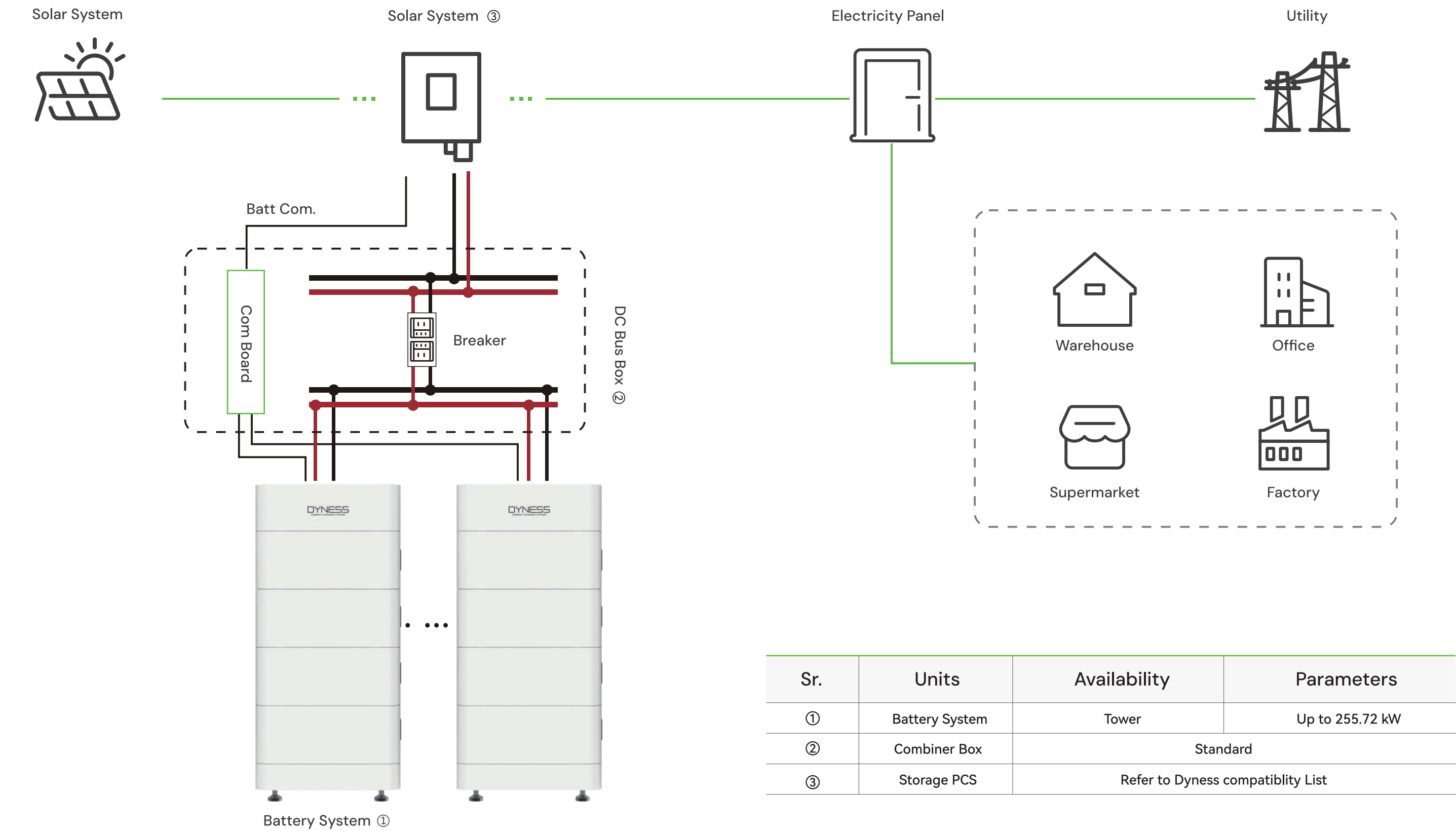
Dyness Tower Matching Guide (Dyness D12.0HS Single Phase Hybrid Inverter)

	Dyness Tower Matching Guide				
Tower – T7	Inverter	D12.0HS			
	Quantity of Tower	2	3	4	5
	Max. charging power (kW)	7.68	7.68	7.68	7.68
	Max. discharging power (kW)	7.68	7.68	7.68	7.68
	Max. charging/discharging current(A)	40	40	40	40
	Nominal battery energy (kWh)	14.2	21.3	28.4	35.5

	Dyness Tower Matching Guide				
Tower – T10	Inverter	D12.0HS			
	Quantity of Tower	2	3	4	5
	Max. charging power (kW)	11.5	11.5	11.5	11.5
	Max. discharging power (kW)	11.5	11.5	11.5	11.5
	Max. charging/discharging current(A)	40	40	40	40
	Nominal battery energy (kWh)	21.3	31.98	42.6	53.25

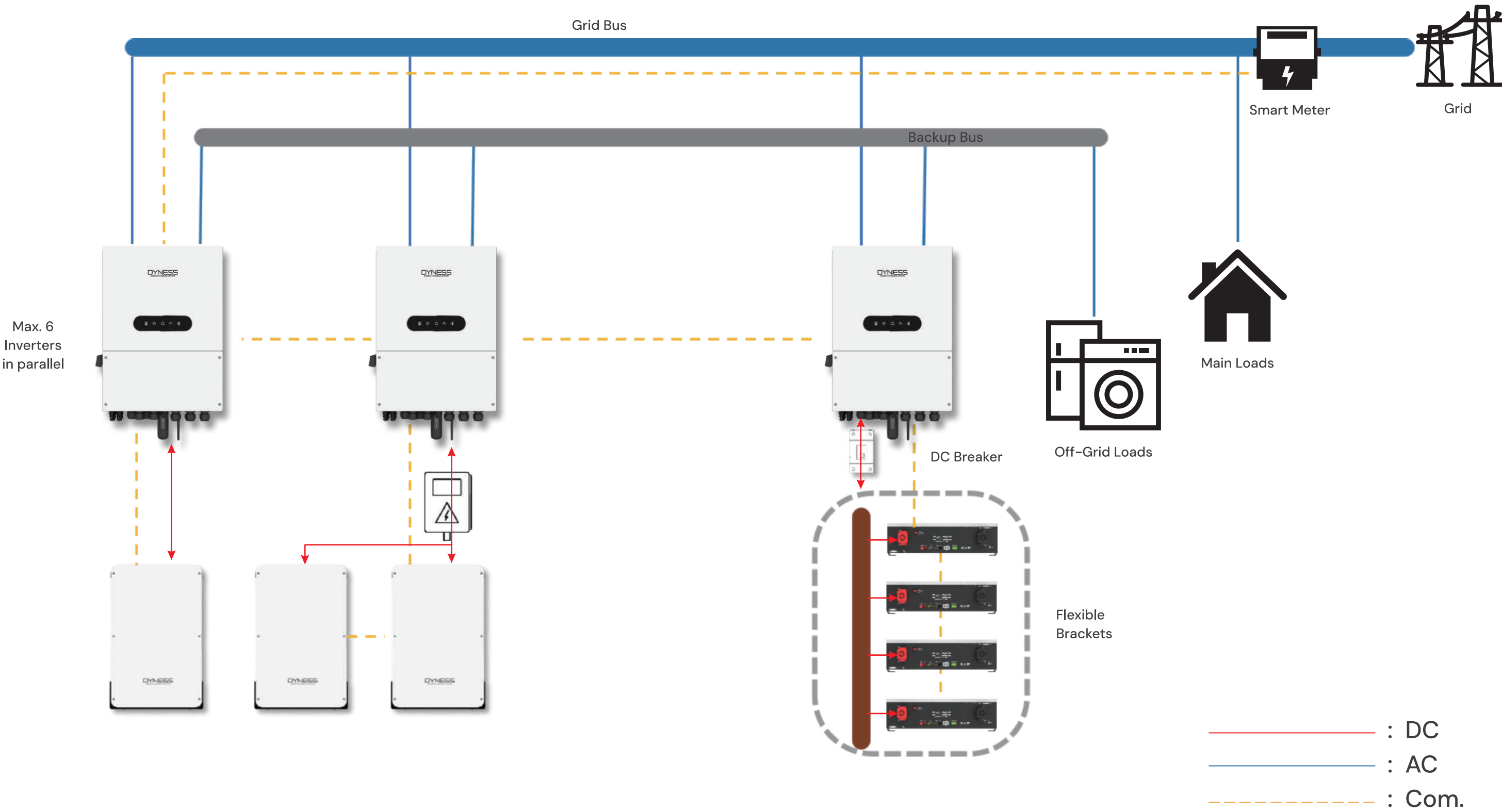
	Dyness Tower Matching Guide				
Tower-T14	Inverter	D12.0HS			
	Quantity of Tower	2	3	4	5
	Max. charging power (kW)	13.2	13.2	13.2	13.2
	Max. discharging power (kW)	13.2	13.2	13.2	13.2
	Max. charging/discharging current(A)	40	40	40	40
	Nominal battery energy (kWh)	28.4	42.63	56.8	71

Product topology diagram



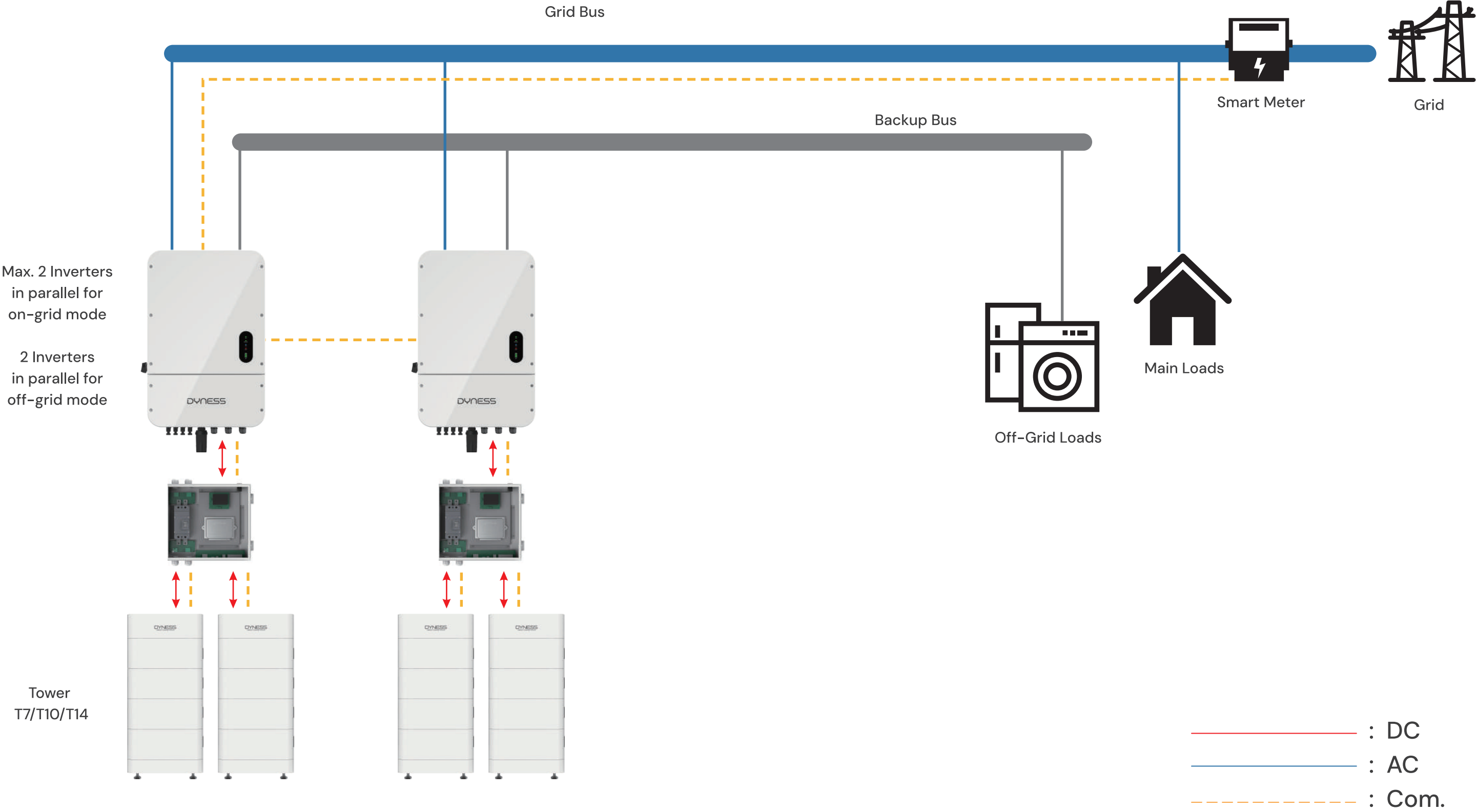
Dyness Energy Storage System

Parallel Connections



Dyness Energy Storage System

Parallel Connections



Commercial and Industrial Energy Storage Products



All-in-one



Safe & Reliable



High Energy Density



All Scenario



Intelligent O&M



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 HV4 in parallel, 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, Intelligent BMS monitors battery status in real time
- Economical**

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

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°C, 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

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 in parallel, 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

1C Rate

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

Long-term Reliability

LFP cells, 6000+ cycles

Ultra Safe

Intelligent fire extinguishing system,
react within 5 seconds

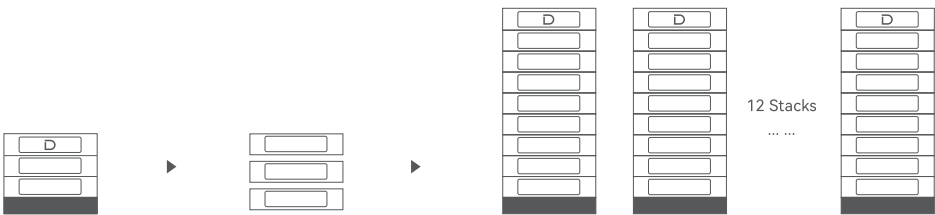
Easy Installation

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

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	≥6000 cycles
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 C , 95% DOD

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**

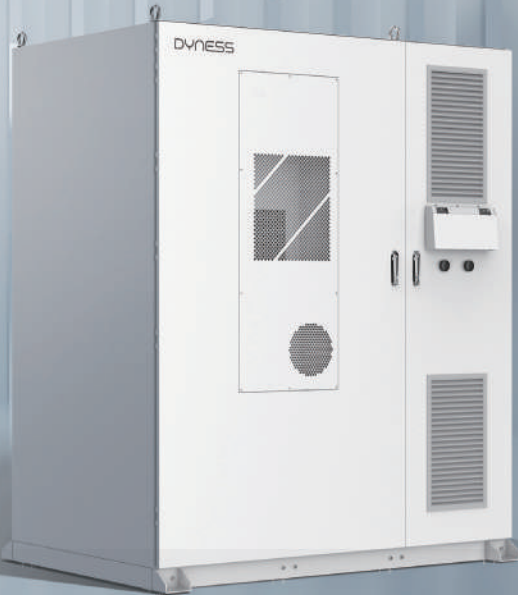
Three-stage detection + active exhaust + passive explosion-proof design to eliminate hidden hazards and ensure safe operation.

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%			
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			
Display	Touch screen			
Elevation	3000m (Derating above 2000m)			
Fire Protection	Aerosol (Optional Perfluorohexanone)			
Communication	Ethernet/4G/RS485			
Certification	CE, LVD, UN38.3			

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.

No Black Out

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

Safe & Reliable

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

Structural Innovation

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

IP55 Protection

Resistant to outdoor installation with strong environmental adaptability.

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%
Air Conditioner Power	3kW (Cooling), 1kW (Heating)
Temperature	-20~50°C(Derating above 40°C)
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

Residential Application Cases



• 40.96kWh
8 units DL5.0C South Africa



• 14.21kWh
Tower T14 Sri Lanka



• 10.66kWh
Tower T10 Czech Republic



• 48kWh
10 units A48100 Lebanon



• 10.24kWh
Powerbox G2 Romania



• 61.44kWh
12 units DL5.0C Yemen



• 19.2kWh
4 units A48100 South Africa



• 172.8kWh
48 units B3 South Africa



• 61.44kWh
6 units Powerbox Pro South Africa

C&I Application Cases



• **Brazil** 100kW/307kWh
 PowerRack HV4F Dynamic capacity expansion (peak-shaving) + PV consumption



• **Netherland** 300kW/645kWh
 DH200F Dynamic capacity expansion + PV consumption+ Charging pile



• **Spain** 500kW/1160kWh
 DH200Y Self-generation and self-use+PV consumption



• **Bulgaria** 112.64 kWh
 PowerRack HV4F Peak-to-valley arbitrage+Self-generation and self-use



• **The Netherlands** 100kW/215kWh
 DH200F PV consumption (self-use)



• **China** 5MW/18MWh
 DH200F Peak-shaving+PV consumption



• **China** 100kW/215kWh
 DH200F Peak-to-valley arbitrage + Dynamic capacity increase

After-sales Service

Online + offline comprehensive operation and maintenance service system

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