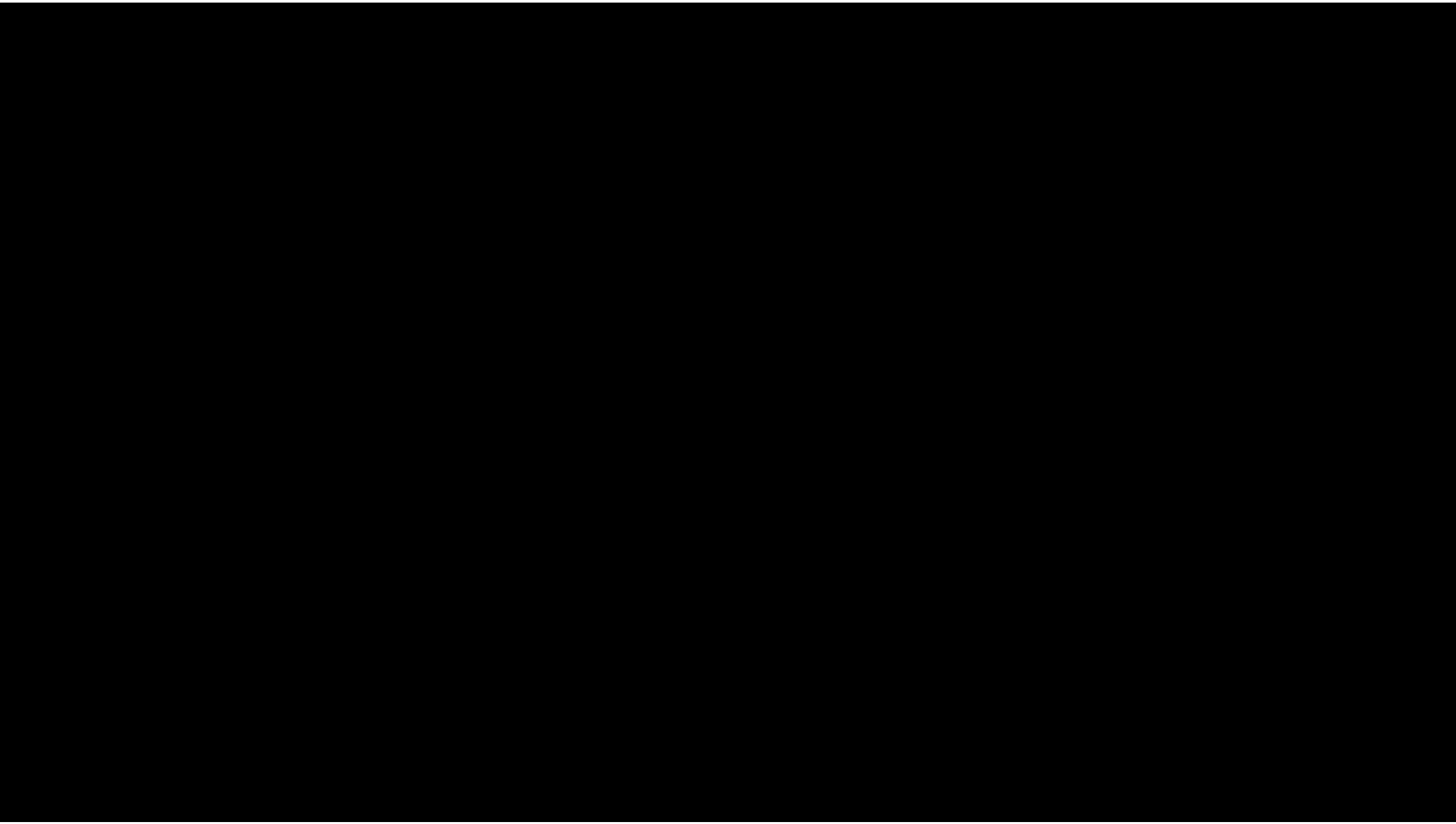
Dyness

2025.01

Part 01

DYNESS COMPANY INTRODUCTION



Dyness is headquartered in Suzhou, China. We have 3 domestic branch offices located in Taizhou, Xi An and Shenzhen.

550+ Employees Globally

3 R&D Bases **150+** People in our R&D team

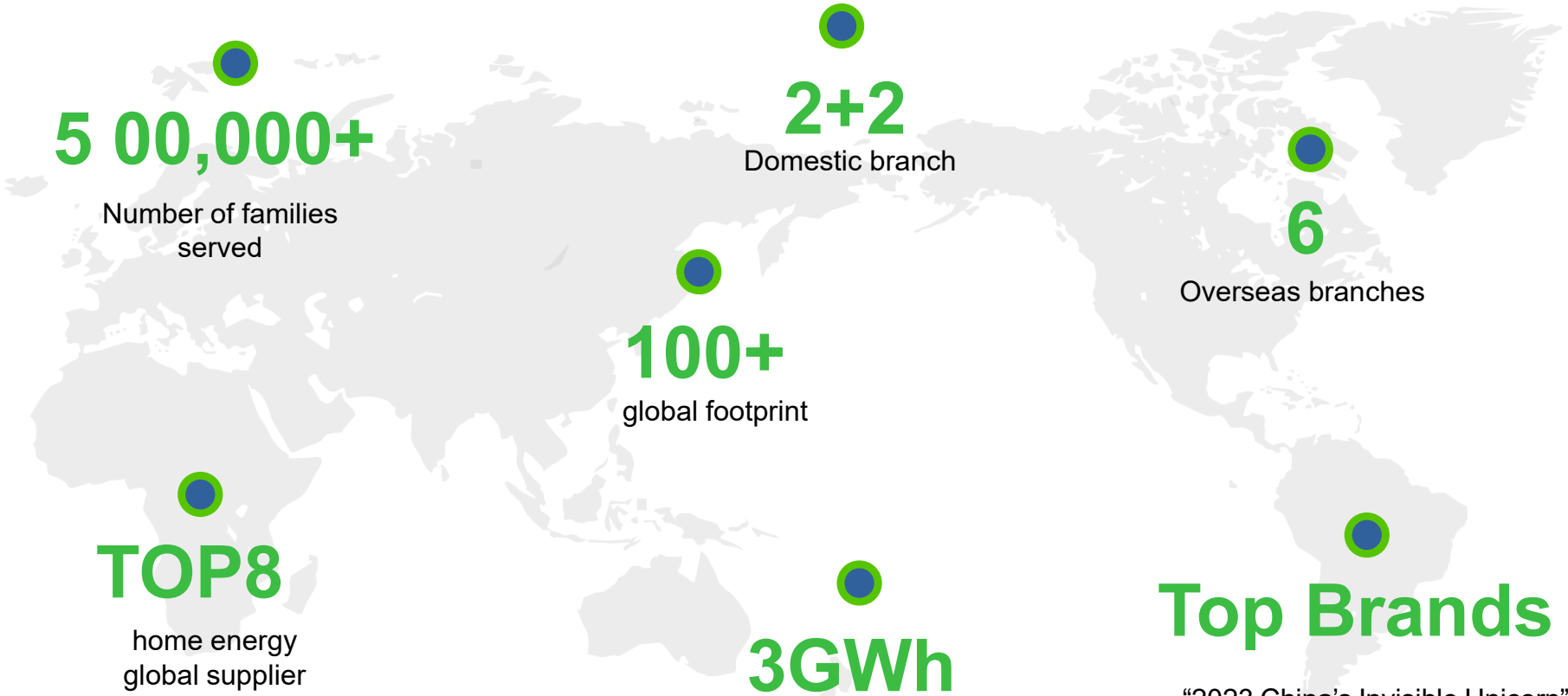
100+ Patents and mainstream certifications (TUV, UL, CE, JET, CEC etc.)

100+ Countries & Regions use our products **6** Global Branches

3GWh Production Capacity

500 000+ Serviced Households

Business Panorama



5 00,000+
Number of families served

2+2
Domestic branch

6
Overseas branches

100+
global footprint

TOP8
home energy global supplier

3GWh
production capacity

Top Brands
“2023 China’s Invisible Unicorn”
“Top 5 Batteries of 2023 Manufacturing Solutions Provider"

7
Years

0
Safety incidents

Development Milestones

June
Xi'an company was established

October
Australian branch established

Entered the South African Market

March
Taizhou factory and R&D center were established

September
Established Brazilian branch

November
Established Dutch

May
Established American Branch

January
Global Headquarters settled in Suzhou

June
Established a subsidiary in South Africa

Branches in Germany, Spain and the UK are under preparation

2017 2019 2020 2021 2022 2023 on the way

Dyness Worldwide Locations

Dyness Taizhou

Dyness Xi'an

Dyness Suzhou

Dyness Brazil

Dyness Netherlands

Dyness America

Dyness South Africa

Dyness Australia

Well Recognized in Overseas Markets

Top Photovoltaic Energy Storage Brand Award
Professional organization certification industry leader

Top Brand PV South Africa

Top Brand PV Brazil

Top Brand PV Czech Republic

Top Battery Solutions Provider in China

Market Certification Aligns with Independent Product Research and Development

100+
Technology patents

20+
Software copyrights

Multifunctional home energy storage battery system
Invention patent / utility model / Design patent

Part 02

DYNESS PRODUCTS OVERVIEW

DYNESS PRODUCTS OVERVIEW

Residential

Module Battery

DL2.5

BX51100

DL5.0C

DL5.0X

Battery Pack

Powerbox G2

LR1.2

Inverter

Powerbrick

DYNE 5.0/8.0L-1P-A

Commercial & Industrial

Tower

HV4

BF100

Powerstone

Stack100

DH100F

DH200F

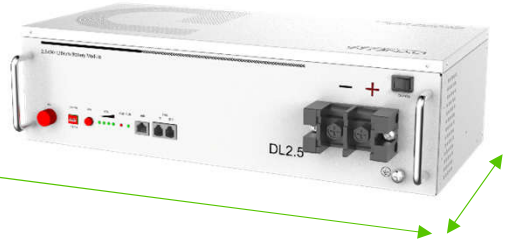
Part 03

RESIDENTIAL PRODUCTS

DYNESS

DL2.5

1.3C
Max.
Discharge



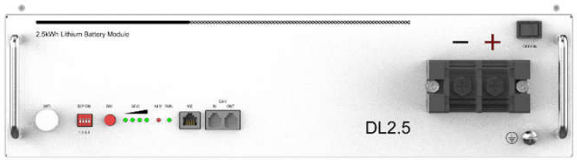
Nominal Energy **2.56kWh**

Recommended Charge/discharge current **50A**

Max. continuous Charge/Discharge Current 75(40min)/130A(30min)

Operating temperature: **Charge: 0~55℃**

Discharge: -20~55℃



22 kg

Flexible Expansion
2.56 kWh per unit
Max. **16** in parallel

Up to 40.96 kWh

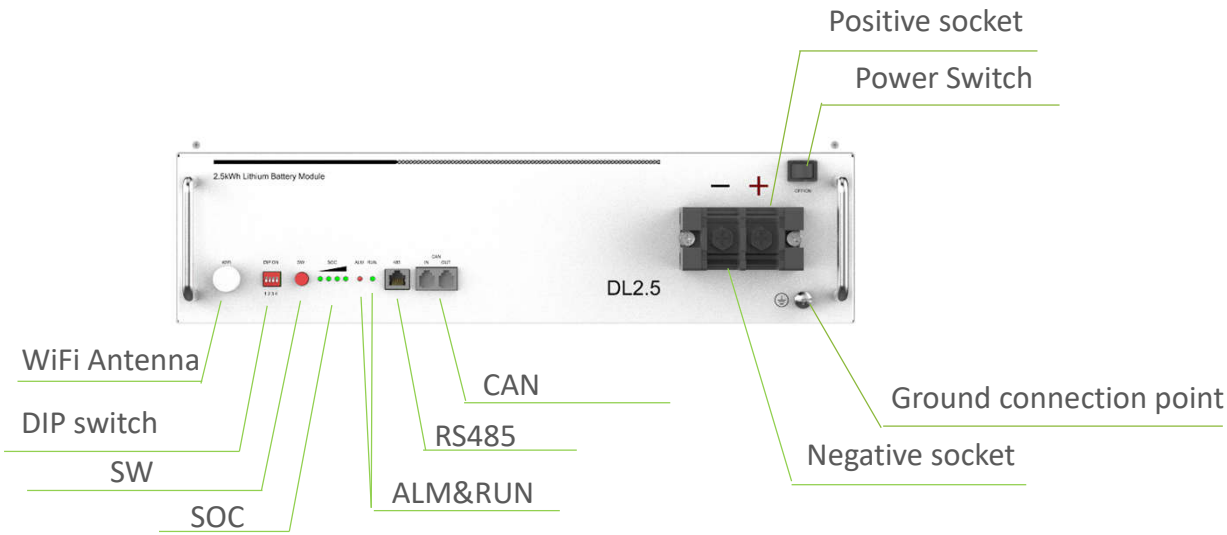
Easy Installation
wall-mounted

High Safety LFP
Cell level monitoring and balancing

APP Monitoring(Optional)
Real-time monitoring & Remote upgrade available

RESIDENTIAL PRODUCTS

Battery Interface



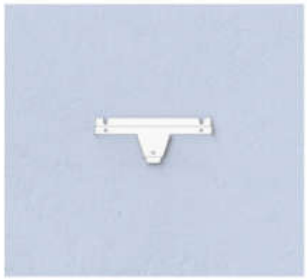
Product Precautions:

1. Power switch: OFF/ON, remains ‘ON when using.
2. DIP switch : Used to match different inverters.
3. SW: When power switch is in ‘ON’, long pressing SW for 3s to enable the battery for switch-on or dormant state.
4. Indicated lights, including SOC lights, ALM light, RUN light, which indicate the status of the battery.
5. WiFi function is optional
6. CAN: support CAN communication. (Factory default CAN mode)

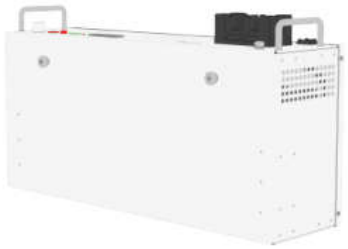
RESIDENTIAL PRODUCTS

Mechanical Installation

Wall-mounted



a) Positioning& Brackets Fastening



b) Lock Two Screws

C) Module Mounting

RESIDENTIAL PRODUCTS

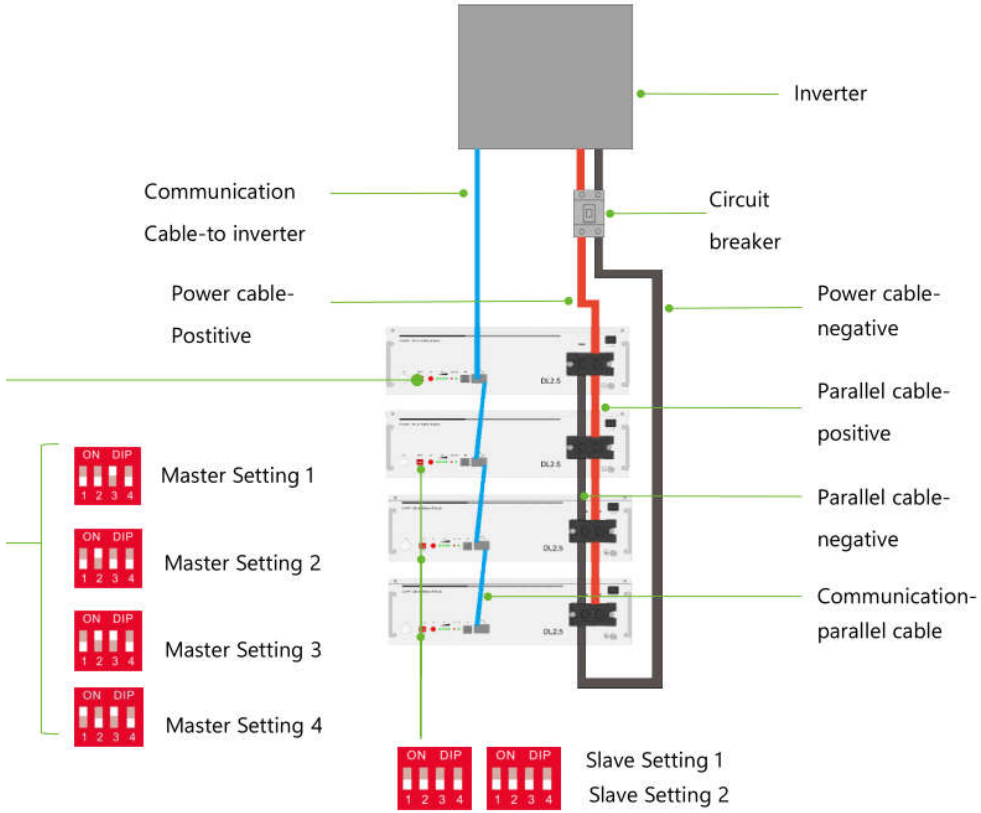
Electrical Installation

Electrical installation

Install grounding cable → Install parallel power & com. Cables → connect power & com. cables to inverter → set DIP switch → turn on the ON/OFF switch → press SW button for 3s → turn on DC breaker → turn on PCS to set up

Attention

It is recommended that **power of inverter : energy of battery ≤1:2**
Recommended **DoD** for LV battery module is **90%**.



Note: Power cables must be connected **diagonally** to make each module get equal current.

Dyness

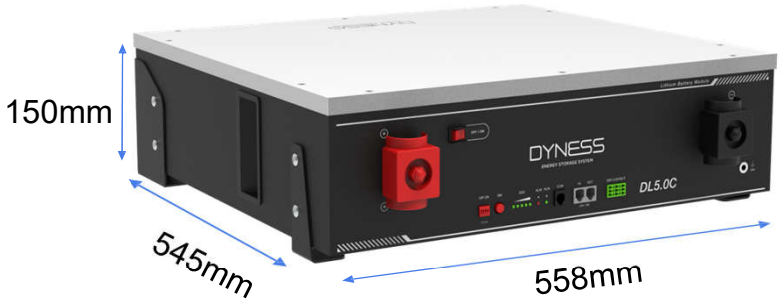
DL5.0C

Battery Installation Video

DL5.0C

DYNESS

1C
discharge



Nominal Energy **5.12kWh**

Recommended Charge/discharge current **50A**

Max. Power Charge Current 75A

Max. Power Discharge Current 100A

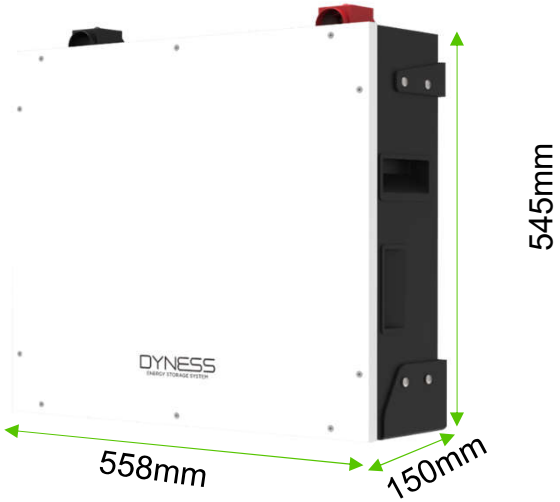
Peak Power Charge/Discharge Current 110A (15s)

Operating temperature: **Charge: 0~55℃**

Discharge: -20~55℃

Storage temperature: -10 ℃ ~ +35 ℃

Relative humidity: 5% ~ 85%RH



54 kg

APP Monitoring (optional)
Real-time monitoring & Remote upgrade available

Flexible Expansion
5.12kWh per unit
Max. **50** in parallel

Up to 256 kWh

Various Mounting Methods
Wall-mounted or floor-standing installation and stack

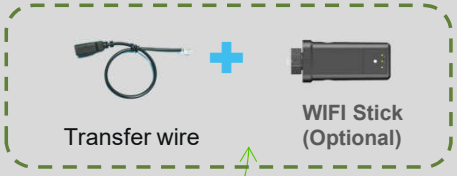
High Safety LFP
Cell level monitoring and balancing

Wide Compatibility
Matching with leading inverters

RESIDENTIAL PRODUCTS

Battery Interface

Product Precautions:

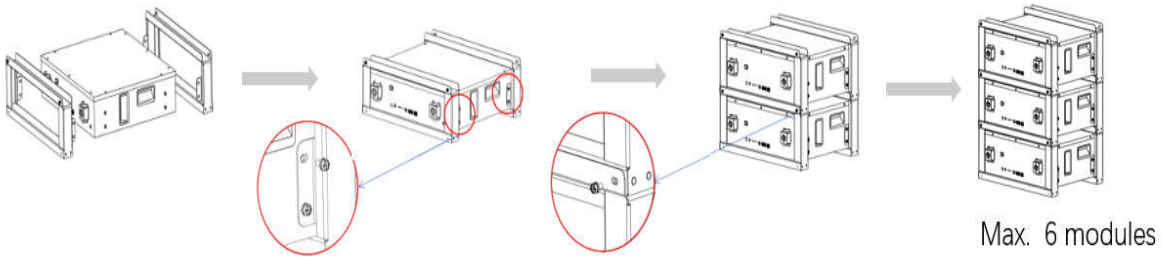


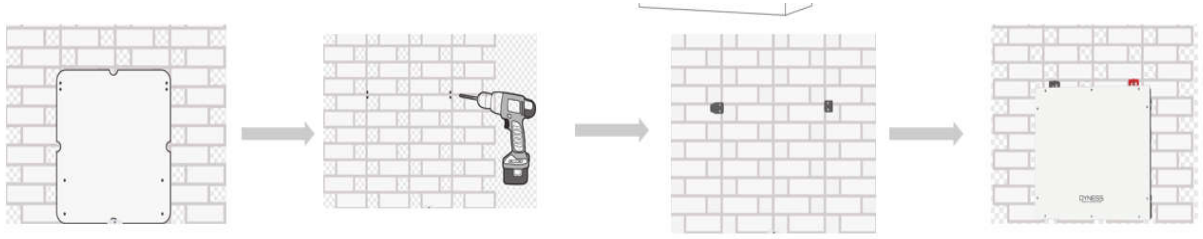
1. Power switch: OFF/ON, remains 'ON when using.
2. DIP switch : Used to match different inverters.
3. SW: When power switch is in 'ON', long pressing SW for 3s to enable the battery for switch-on or dormant state.
4. Indicated lights, including SOC lights, ALM light, RUN light, which indicate the status of the battery.
5. COM: Communication cascade port, support **RS232 for remote upgrade**.
6. CAN/485: support CAN/RS485 communication. (Factory default CAN mode)

RESIDENTIAL PRODUCTS

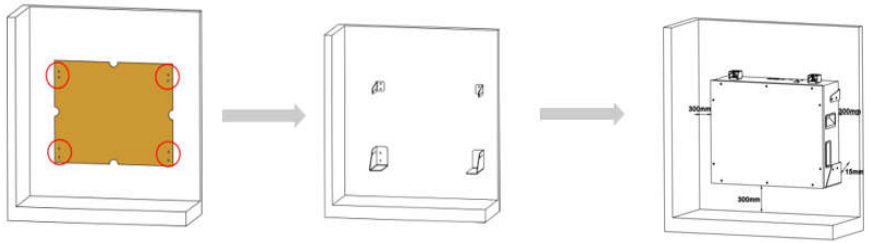
Mechanical Installation

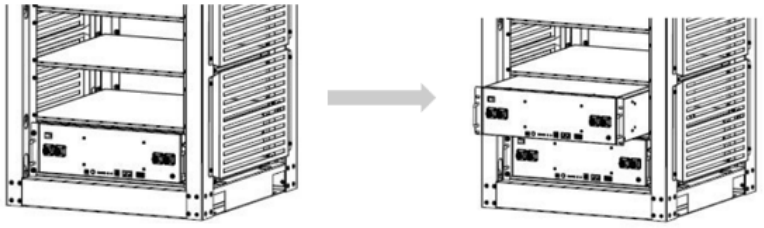
Flexible bracket





Wall-mounted





RESIDENTIAL PRODUCTS

Electrical Installation

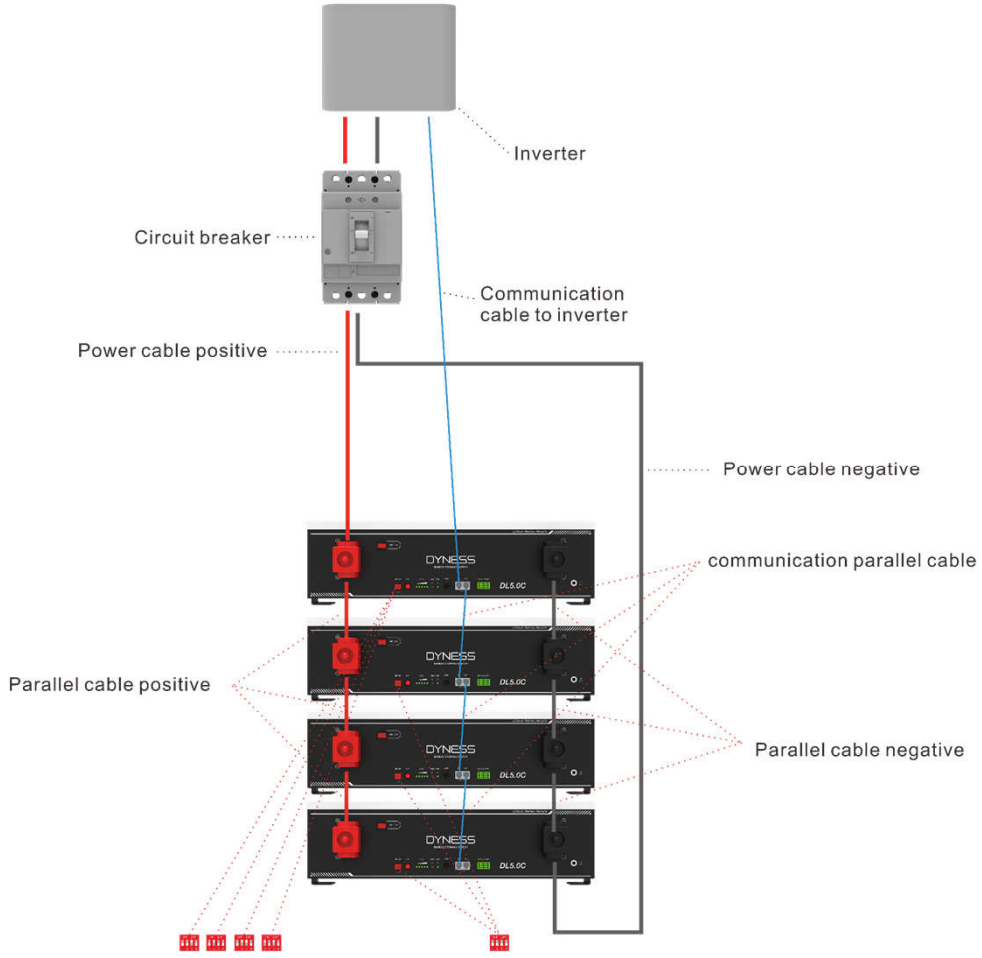
Electrical installation

Install grounding cable → Install parallel power & com. Cables → connect power & com. cables to inverter → set DIP switch → turn on the ON/OFF switch → press SW button for 3s → turn on DC breaker → turn on PCS to set up

Attention

It is recommended that **power of inverter : energy of battery ≤1:2**
Recommended **DoD** for LV battery module is **90%**.

No extra communication device needed for paralleling 50 batteries.



Note: Power cables must be connected **diagonally** to make each module get equal current.

LR1.2

DYNESS

214mm

330mm

172mm

1C
Max.
Discharge

Nominal Energy **1.28kWh**

Max. continuous Charge/Discharge Current **100/100A**

Operating temperature: **Charge: 0~55℃**

Discharge: -20~55℃

12 kg

Light Weight
1/3 weight of the lead-acid battery of the same capacity

Easy Installation
12kg, easy to handle

High Protection level
IP65

Longer service life
3 years, ≥3000 cycles

Deep Cycling
100%DOD

Comparison between Dyness LR1.2 and Lead-acid

	LR1.2	Lead-acid	Advantages of LR1.2
Weight	12kg	30kg	1/3 of lead-acid by weight
Service life	3 years	1year	longer service life
Cycle life	3000 cycles	200-500cycles	much more cycles
Price (Rand)	3500	2000	
Price per day(Rand)	3.2	5.47	LFP is 58% price per day of Lead-acid
Environment Protection	Environment friendly	Heavy metal Pollution	LFP has no heavy-metal pollution
Reliability	BMS integrated	No BMS	1. BMS can protect battery from over charge, discharge, short-circuit, high and lower temperature. 2. LFP can be reactivated even at 0V for multiple times 3. IP65 for outdoors 4. Prevent battery from charging at below 0 ℃, that will protect battery better.

Comparison between Dyness LR1.2 and Other Lead-acid Alternative LFP

Feature	LR1.2	Other Lead-acid Alternative LFP	Advantages of LR1.2
Cell	Tier 1	uncertain	Better cell quality
Inverter compatibility	Capacitive load 20mF	Capacitive load 10mF	Can work with almost all inverters below 3kW capacity due to LR1.2 withstanding larger capacitive load
Short circuit protection	Recover when load is disconnected	Component (MOS) damaged	Protect BMS from been damaged and fire accident
Low temperature protection at charge	0±5℃	No protection	Better to ensure battery health
High temperature protection at discharge	-20±5℃	No protection	
Cell balancing	3.35-3.7V	No balance	
Over discharge current protection	300±50A	350±100A or no protection	
Over charge current protection	130±20A	150±60A	
Pack structure	Barely no EVA cotton filled	Lots of EVA cotton filled	

Connection

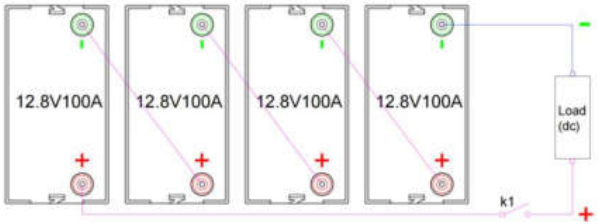


Figure 5-1 Series Application: 4S1P,51.2V100Ah

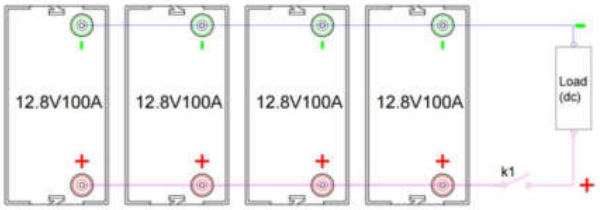


Figure 5-2 Parallel Application: 1S4P,12.8V400Ah

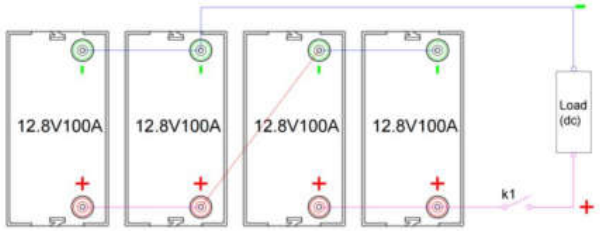


Figure 5-3 Series-parallel Applications: 2S2P,25.6V200Ah

Figure 5-4 Series-parallel Applications: 4S2P,51.2V200Ah

Max 4 units in series and parallel connection

Comparison between Dyness and Eastman

S.N.	Item	EM12.8-100LPH	LR1.2	Remark
1	Energy	1.28	1.28	
2	Capacity	100Ah	100Ah	
3	Max charge & discharge C-rate	1C	1C	
4	Size	330*173*216	330mm*172mm*214mm	
5	DOD	unknown	100%	
6	Cycle	unknown	≥3000 cycles	
7	Capacity expansion	unknown	4 parallel and 4 series	
8	IP	unknown	IP65	
9	Warranty	unknown	3 years	
10	Weight	12.8kg	12kg	

Powerbox Pro

DYNESS

Nominal Energy **10.24kWh**

Recommended Charge/discharge current **100A**

Peak Power Charge/Discharge Current 200A (15s)

Operating temperature: **Charge: 0~55℃**

Discharge: -20~55℃

Storage temperature: -10 ℃ ~ +35 ℃

Relative humidity: 5% ~ 85%RH

APP Monitoring (Optional)
Real-time monitoring & Remote upgrade available

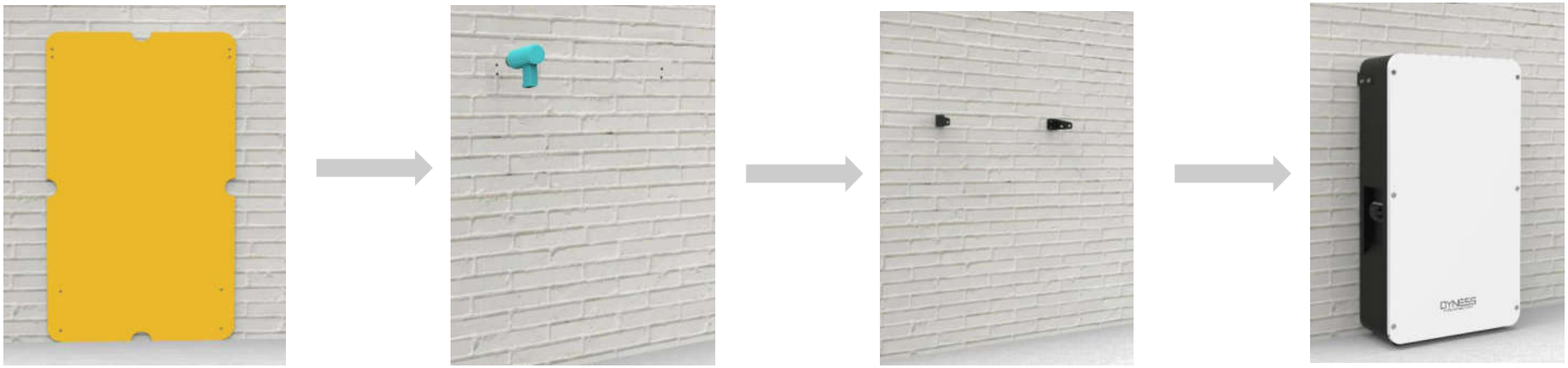
IP65
High protection level
Indoor & outdoor options

Various Mounting Methods
Wall-mounted or floor-standing installations

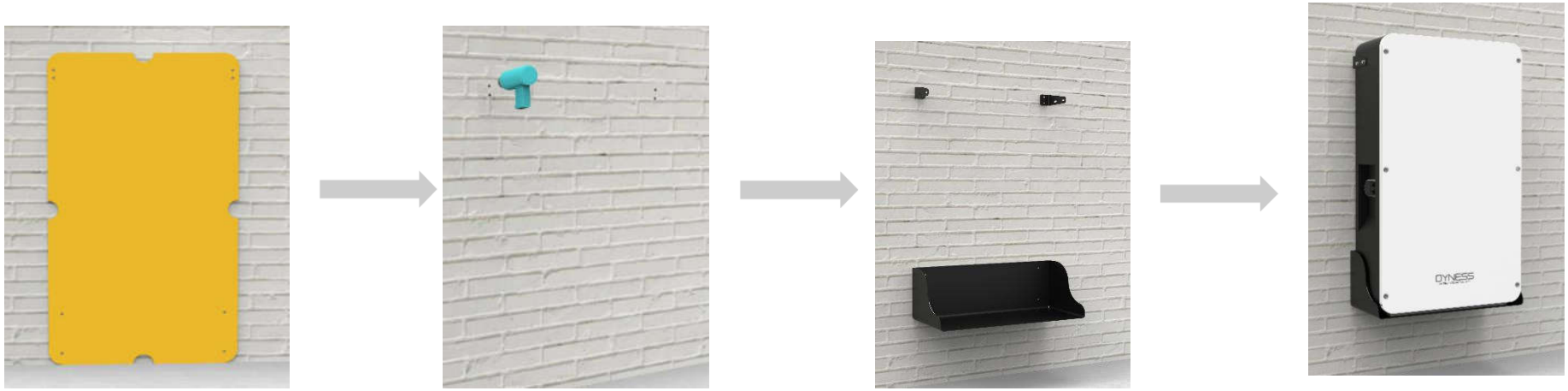
High Safety LFP
Cell level monitoring and balancing

Flexible Expansion
Max. **5** units in parallel

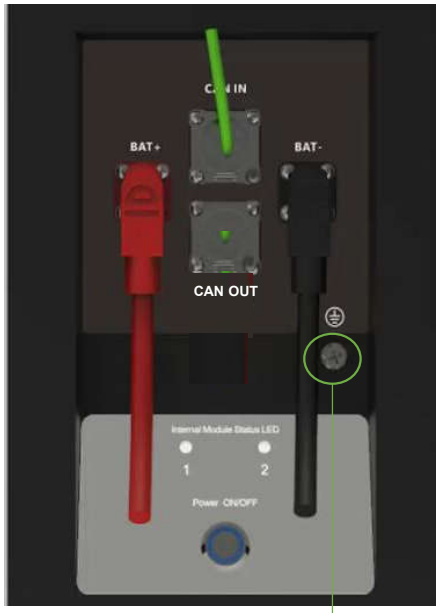
Mechanical Installation



Floor standing

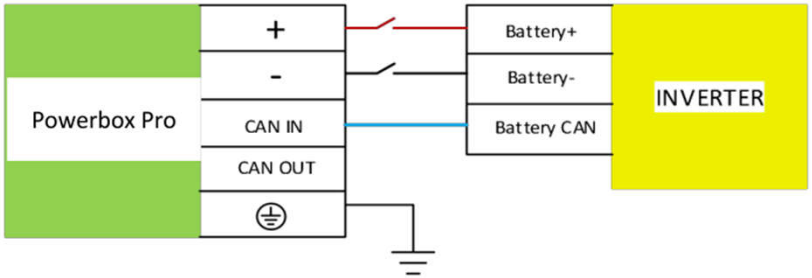


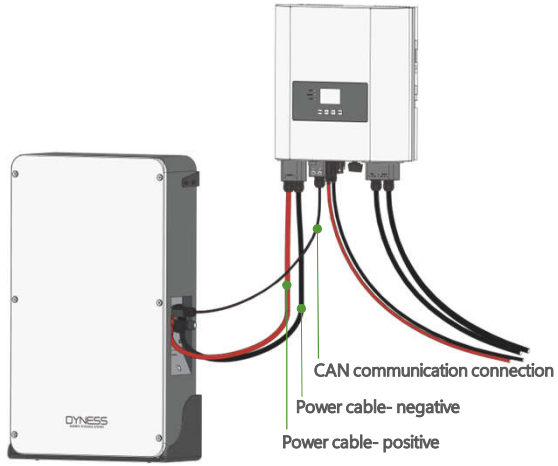
Wiring of **Powerbox Pro** when the system is used **independently**



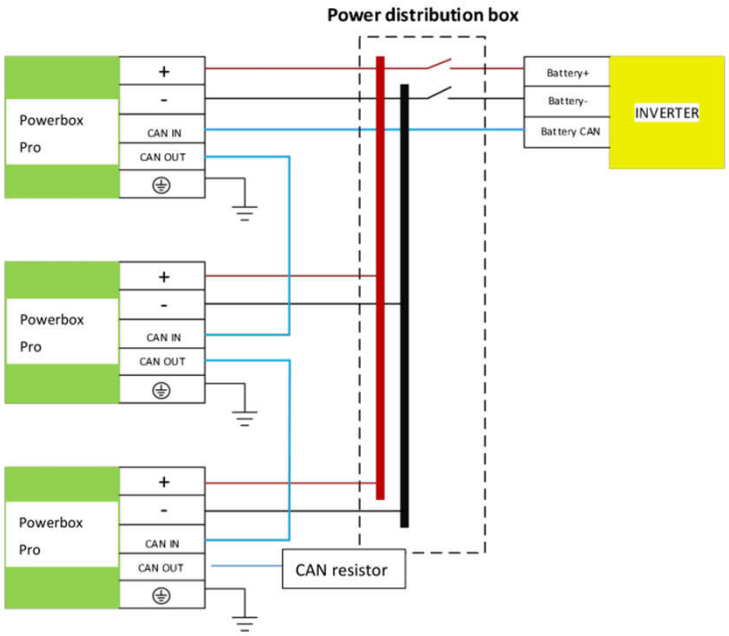
Grounding point

Right Interface of Powerbox Pro

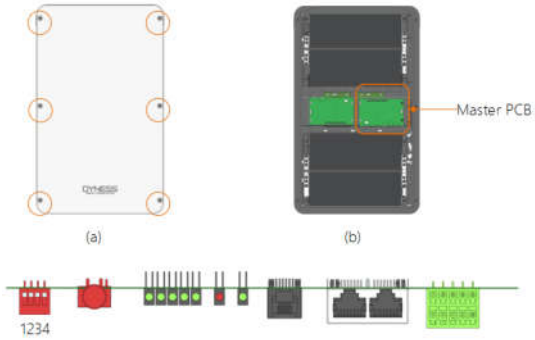


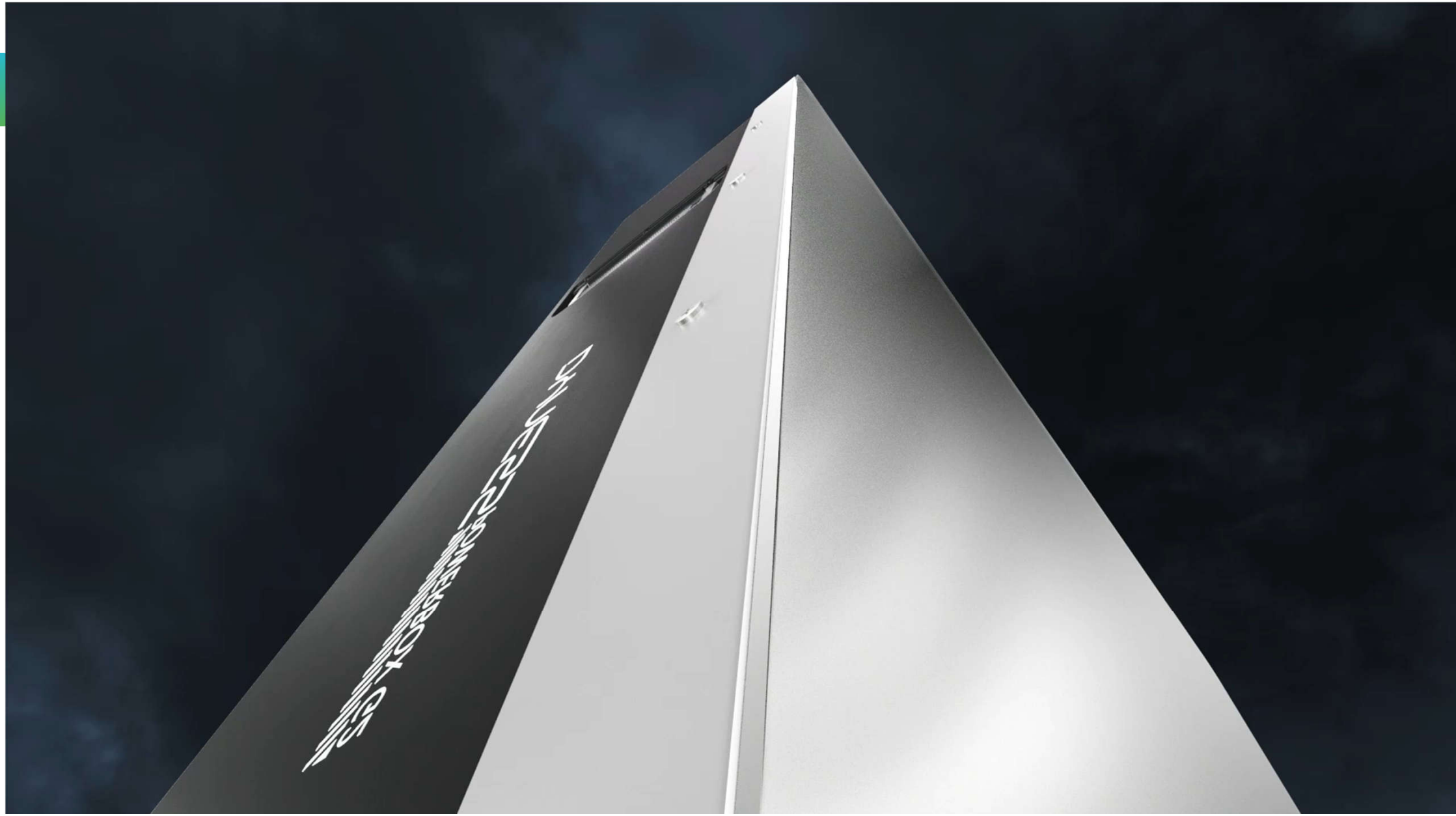


Wiring of **Powerbox Pro** when the system is used **in parallel (MAX. 5)**



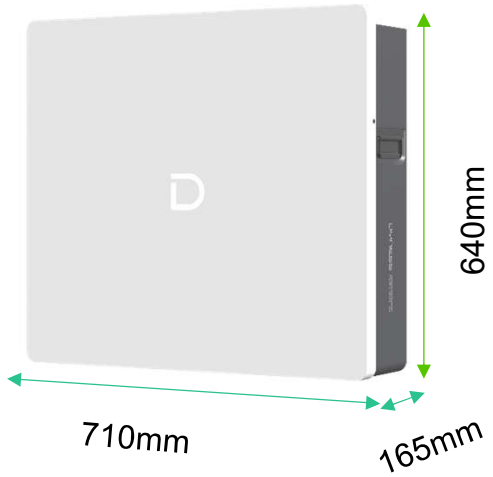
When the system is used in parallel, all the cover of slave Powerbox Pro systems need to be opened and the DIP switch of the master PCB need to be changed to Slave Setting (i.e. ADD: 0000), while the master PCB of Powerbox Pro follows the Master Settings.




GENERATIONS

RESIDENTIAL PRODUCTS

Powerbox G2



95kg without Glass front
98kg with Glass front

Features

- Max 50 units in parallel, 10.24~512 kWh expansion
- Active fire suppression: Built-in aerosol fire extinguisher
- Built-in WiFi module, remote App monitoring and upgrade
- 8000 Cycles / 10 Years
- 1C discharge rate, 10.24kW
- LED is programmable to show charging/discharging/alarm,etc.
- One click to upgrade all battery packs
- Master and slave auto recognized
- Breatheable vavle
- Tier 1 battery cell, BYD EVE

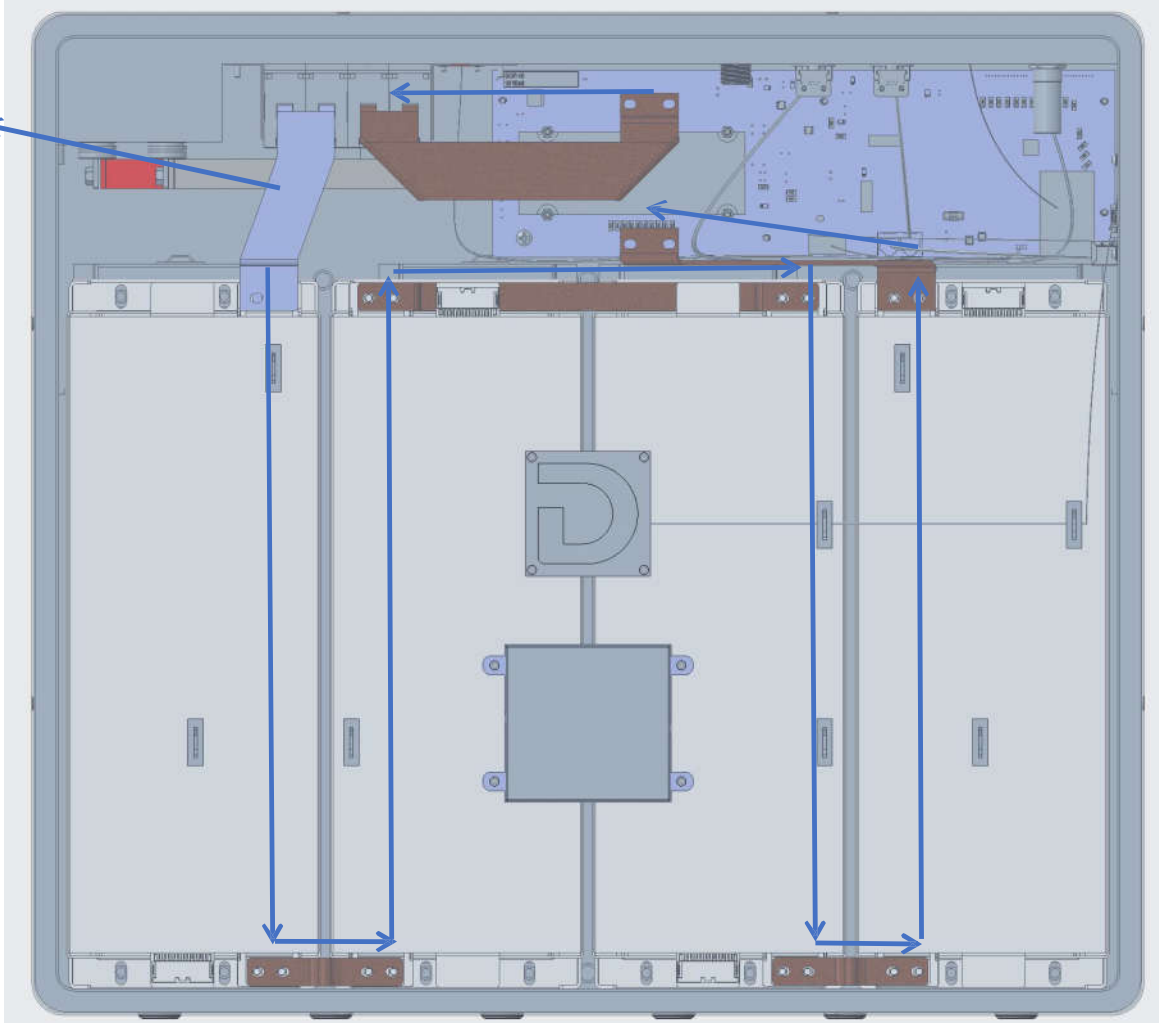
	Specifications
Battery Energy	10.24kWh
Nominal Voltage	51.2V
Battery Capacity	**200Ah**
Maximum continuous discharge current	**200A**
Mounting	Wall-Mounted & Floor-standing
DOD	**95%**
IP level	**IP65**
weight	95kg
Working temperature:	-20~+55℃
Dimension(W*H*D)	710*165*640mm
Certifications	UN38.3/IEC62619/IEC62040/CEC/CE RED

Why is Powerbox G2 designed to be square

- Bus bar is as shortest as possible to reduce cost, lower internal impedance so as to reduce heat generation;
- Easier for assembly

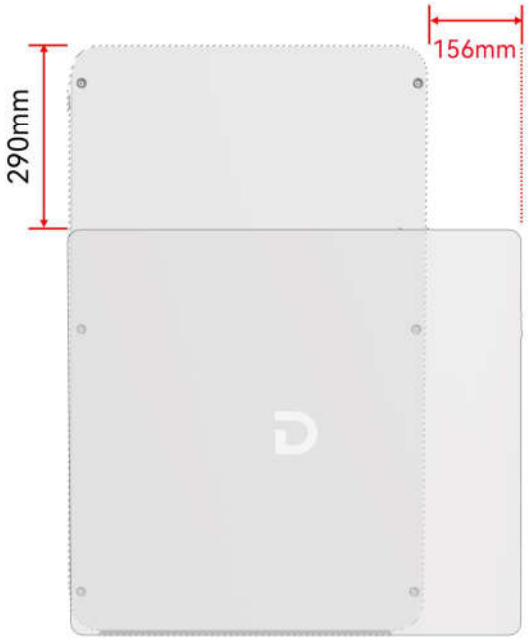
Shortest path to output port

Positive

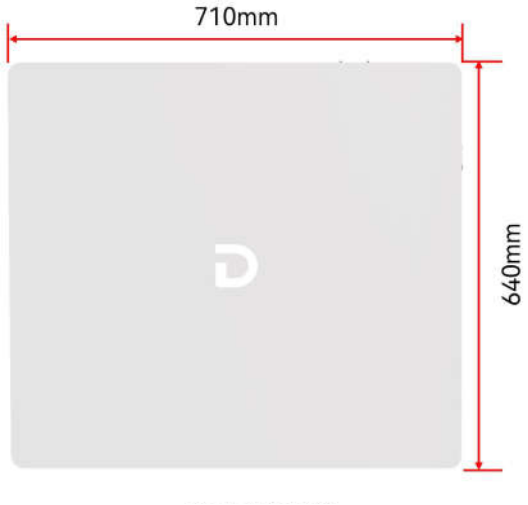


Negative

Lighter, thinner, smaller



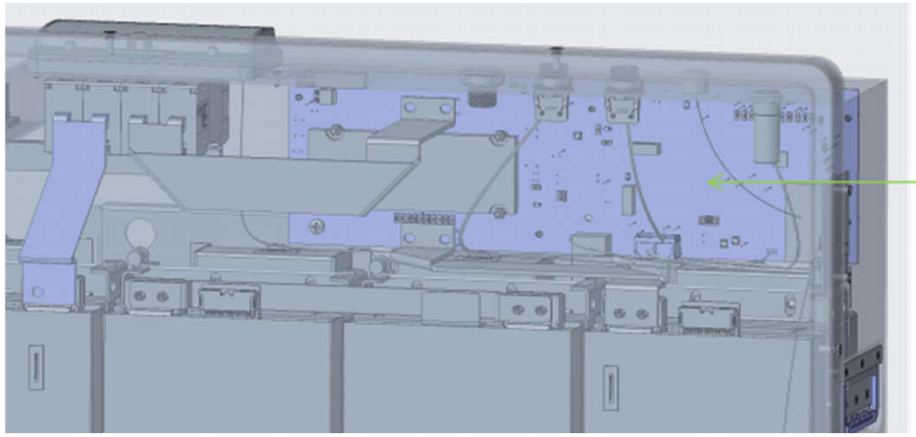
PowerBox



PowerBox G2

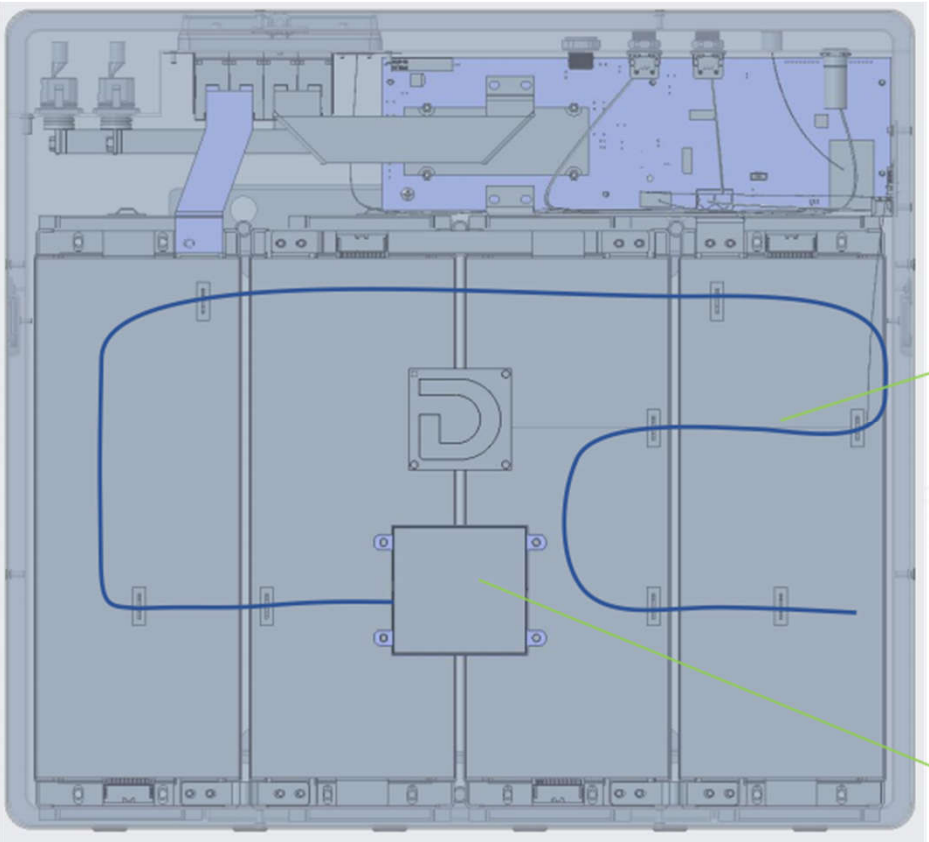
PowerBox

New upgrade——Powerful performance



- ✓ Brand all-new high-power integrated BMS
- ✓ Built-in Wi-Fi module
- ✓ Supports up to 200A continuous current
- ✓ Design of the shortest power line path

New upgrade——Aerosol fire suppression system



Temperature or fire sensor

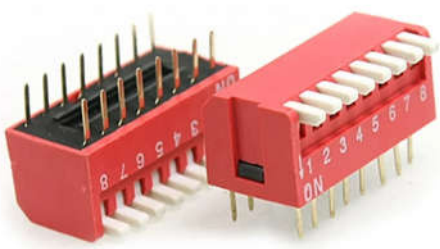
Aerosol Fire Extinguisher Unit

New upgrade——Effortless Communication Settings

One-click OTA upgrade

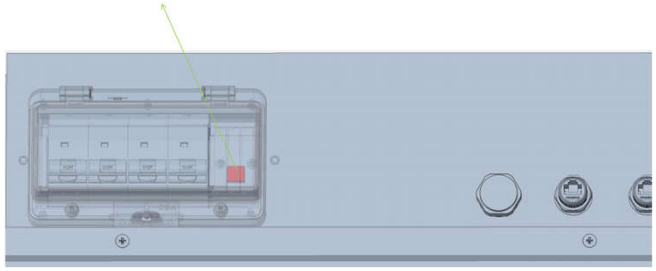
With one-click OTA upgrades, when multiple units are paralleled, there's no need to individually upgrade each unit. Simply upgrade one battery, and the rest will automatically update via parallel communication lines. Easy and convenient operation

Master-slave and automatic recognition



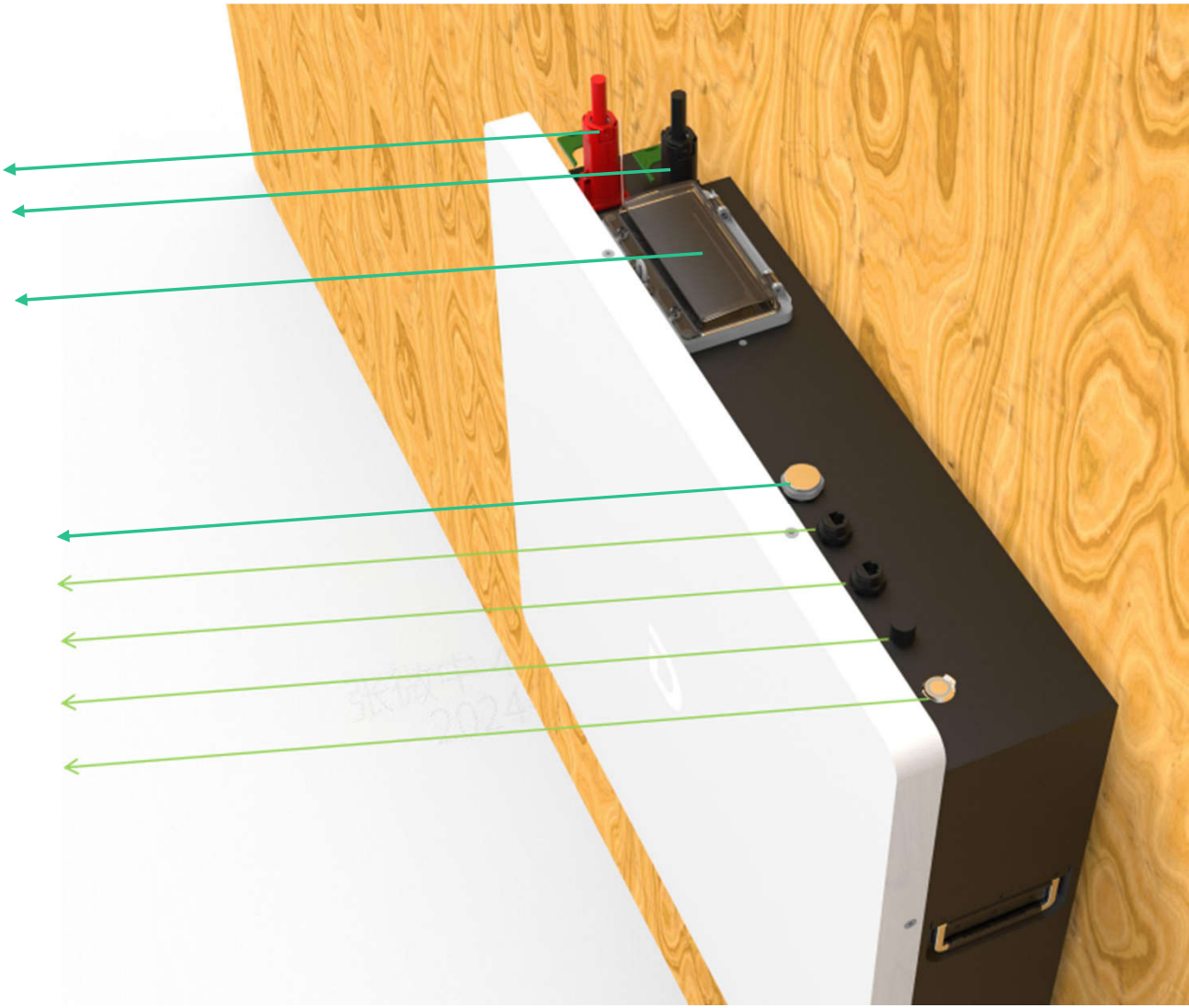
Automatic master-slave recognition in multi-unit parallel connection designates the battery connected to the inverter as the master unit. Simplify your setup—no more dip switches required!

Built-in CAN/485 Communication Switch



The CAN/485 communication switch is now integrated into the waterproof cover of the circuit breaker for easy access. Seamlessly switch between CAN and 485 communication protocols without the hassle of opening the front panel.

Battery Interface Introduction



Hidden wall mounting bracket

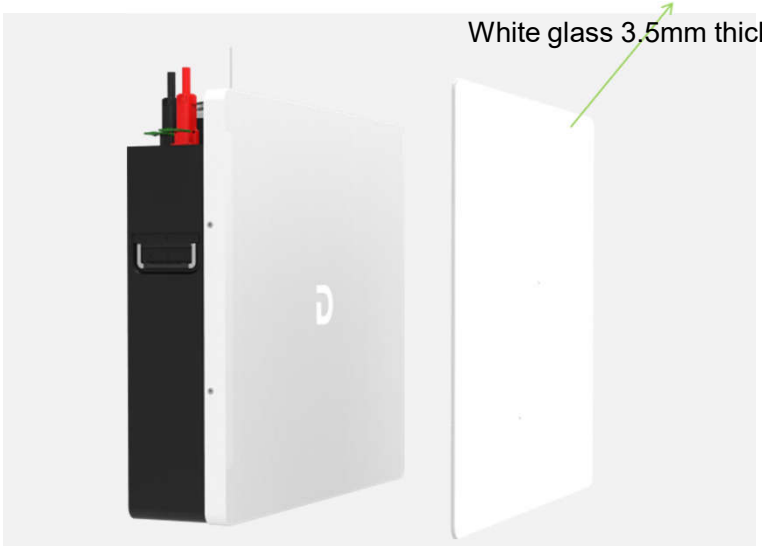
Friendly installation in 3 steps

1. 6 screws are fixed into the back of the cabinet
2. The wall bracket is fixed to the wall with expansion screws
3. When wall-mounted, the screws are inserted into the round hole slot of the wall-mounting bracket to fix it.

Explore More Custom Design

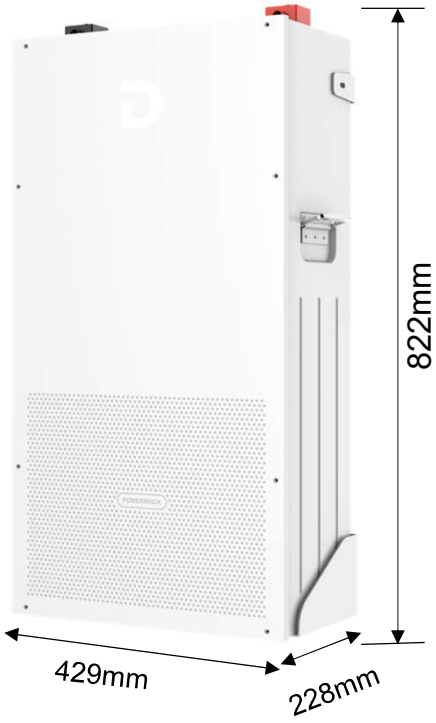
LED lighting display with programmable customized display effects

Optional Tesla Powerwall 3 same white glass panel



RESIDENTIAL PRODUCTS

PowerBrick



Floor standing with wheel (optional) for easy transport

Features

- Max 50 units in parallel, 14.3~715 kWh expansion
- 10 years warranty , **8000** cycles
- LED is programmable to show charging/discharging/alarm,etc.
- Built-in WiFi module, Smart monitoring optimizes the battery system.
- With a maximum discharge power of 0.7C ,10.24KW
- Optional built-in aerosol fire extinguisher

	Specifications
Battery Energy	14.3kWh
Nominal Voltage	51.2V
Battery Capacity	**280Ah**
Maximum continuous current	**200A**
Mounting	Wall-Mounted & Floor-standing with wheel(optional)
DOD	**95%**
IP level	IP20
weight	**115kg**
Working temperature:	-20~+55℃
Dimension(W*H*D)	**429*228*822mm**
Certifications	UN38.3/CE

Smaller and lighter

Weight: 115KG；

Size is 40%

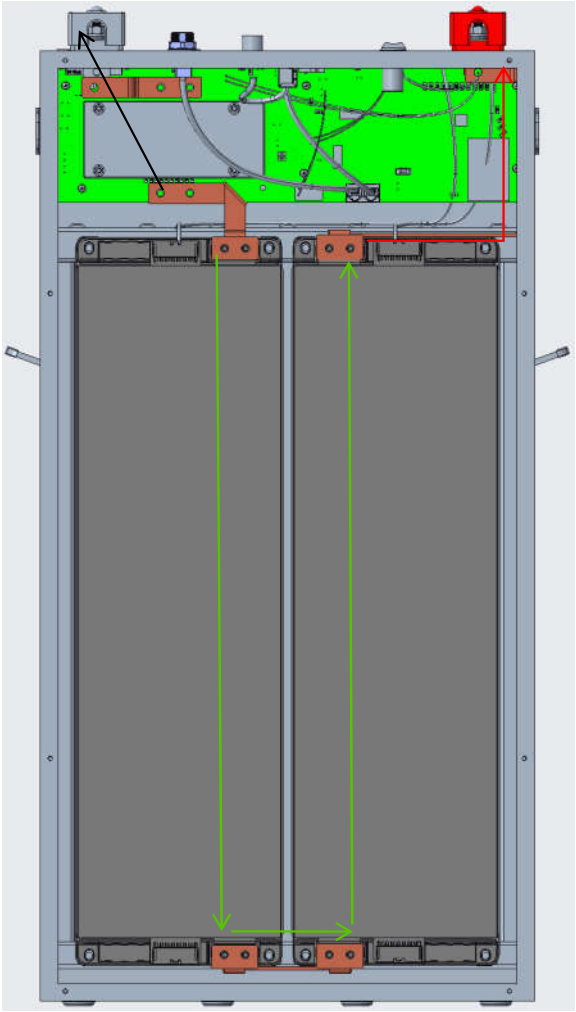
Weight is lighter by 39%

Weight: 154KG

Shortest Copper Bus Bar Length

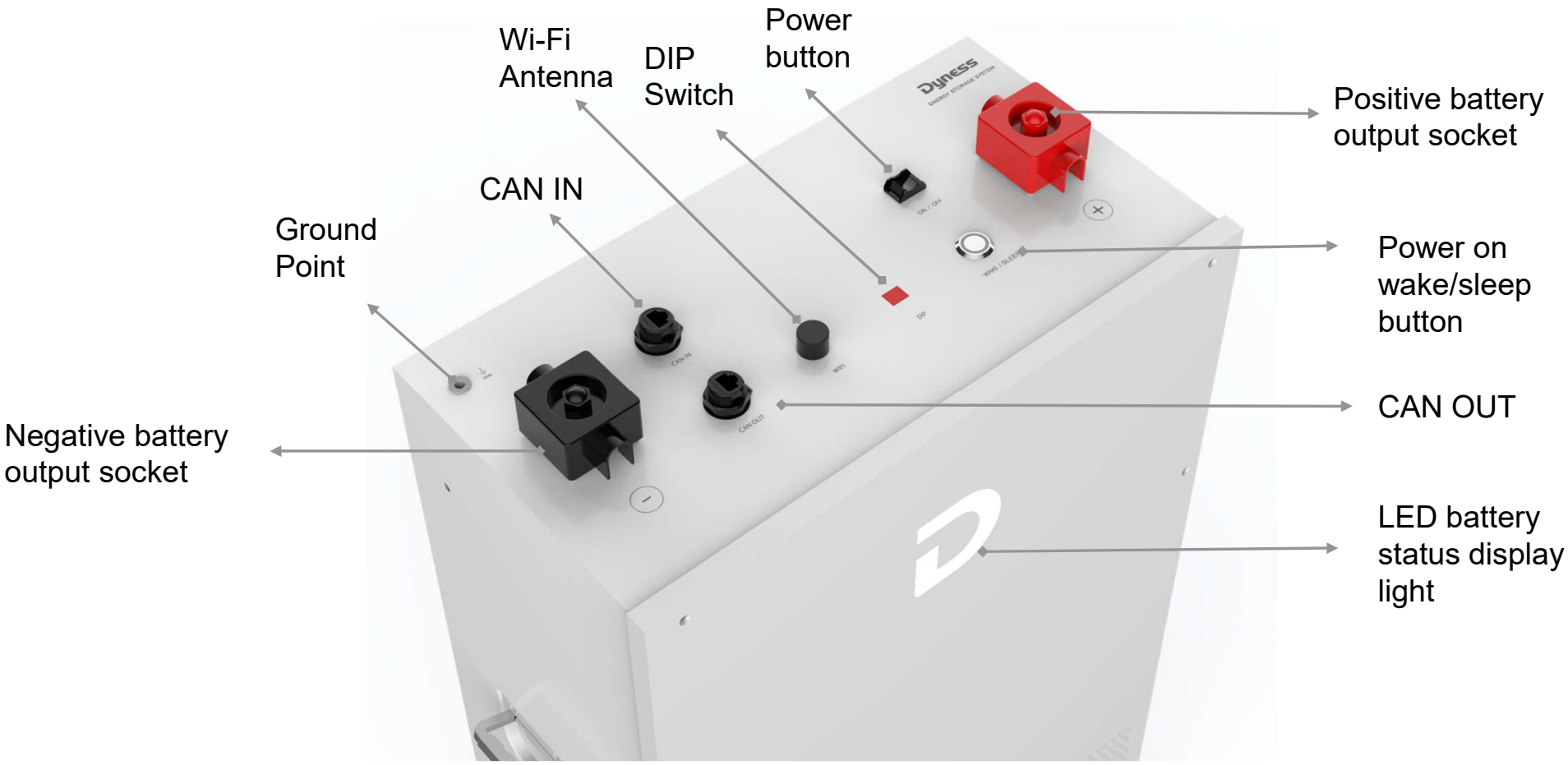
- Bus bar is as shortest as possible to reduce cost, lower internal impedance so as to reduce heat generation;
- Easier for assembly

Negative

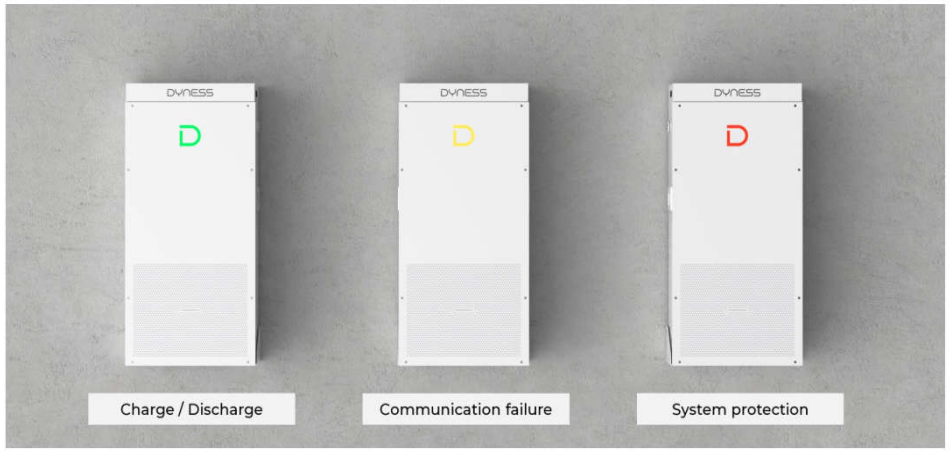


Positive

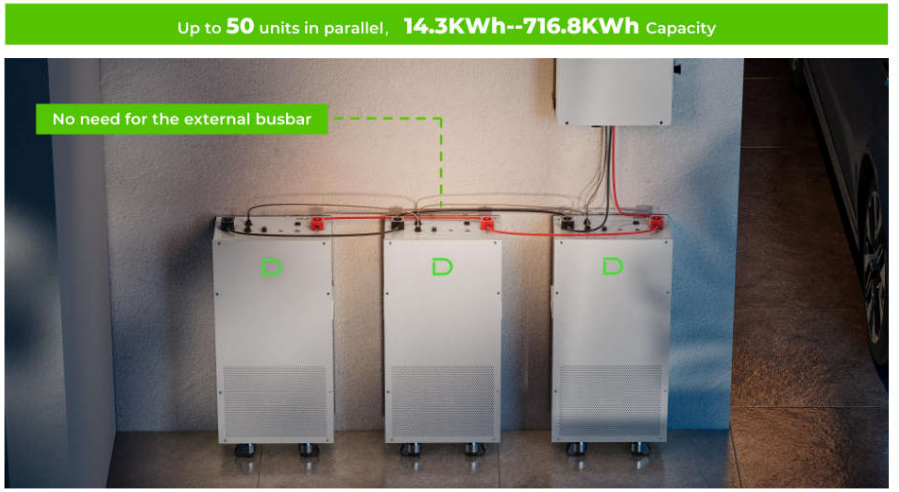
Battery interface introduction



Discover different battery status through lights



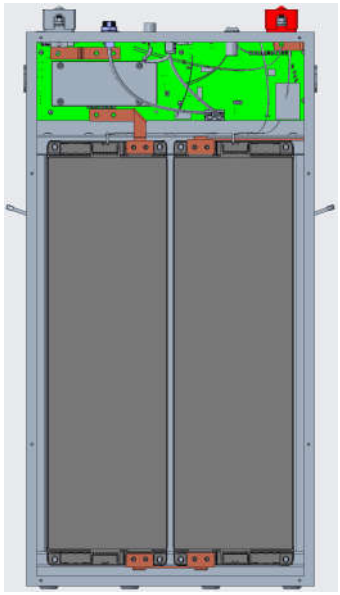
LED color is programmable to show charging/discharging/alarm,etc.



Up to 50 units in parallel

Less

Less copper bar length

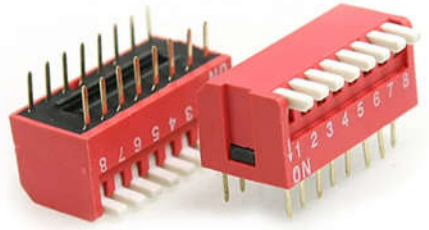


Reduced system impedance, increased system efficiency, and decreased heat generation

Less manual updates

With one-click OTA upgrades, when multiple units are paralleled, there's no need to individually upgrade each unit. Simply upgrade one battery, and the rest will automatically update via parallel communication lines. Easy and convenient operation

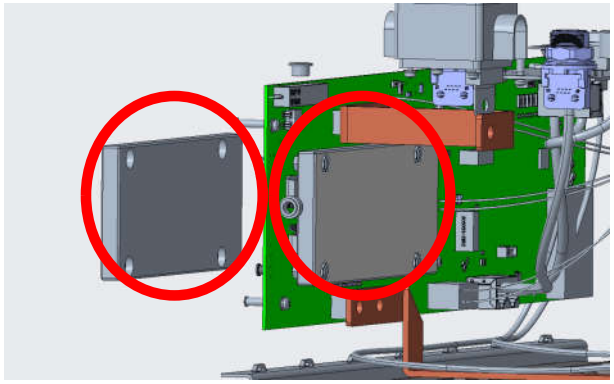
Less hassle, no dip switches needed!



Automatic master-slave recognition in multi-unit parallel connection designates the battery connected to the inverter as the master unit. Simplify your setup—no more dip switches required!

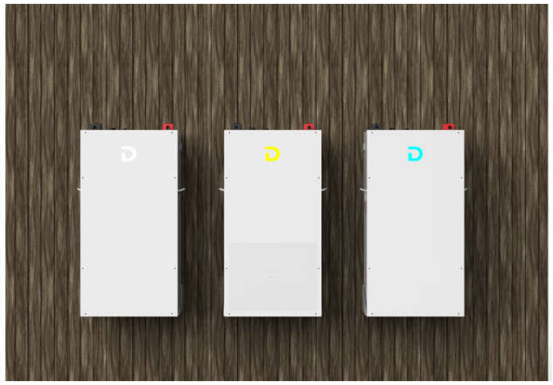
More

More Durable



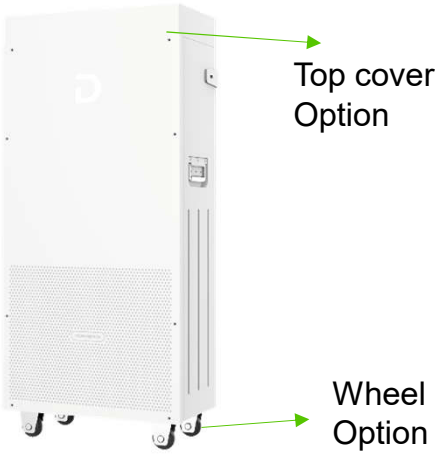
Dual-sided aluminum plate ensures stable and durable operation

More Interaction



LED display with customizable effects for personalized viewing.

More customized Design



Optional top cover and wheels

Friendly to Installers

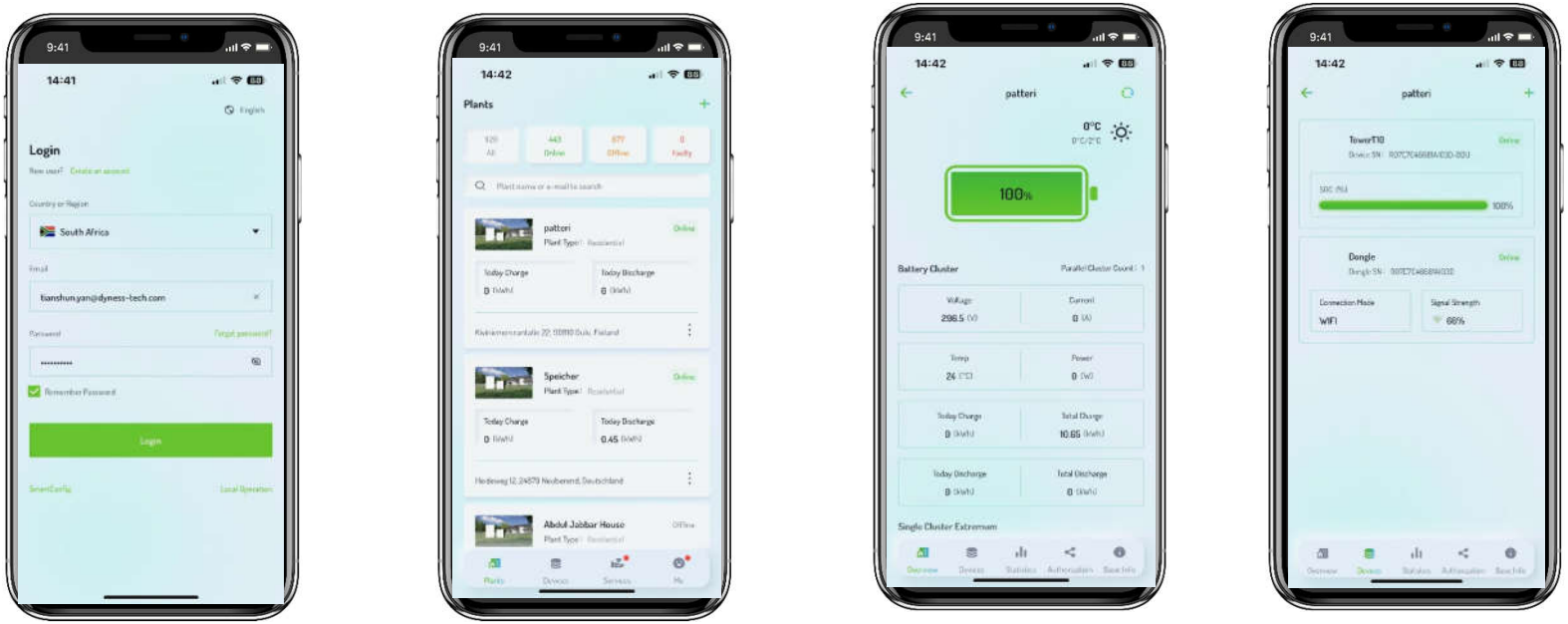
The bracket and wall are fixed with expansion screws

The battery is lifted onto the bracket, the upper mounting lugs are fixed with screws, and the bottom is limited by the convex bump.

The convex bump at the bottom of the battery shell snaps into the round groove of the bracket

RESIDENTIAL PRODUCTS

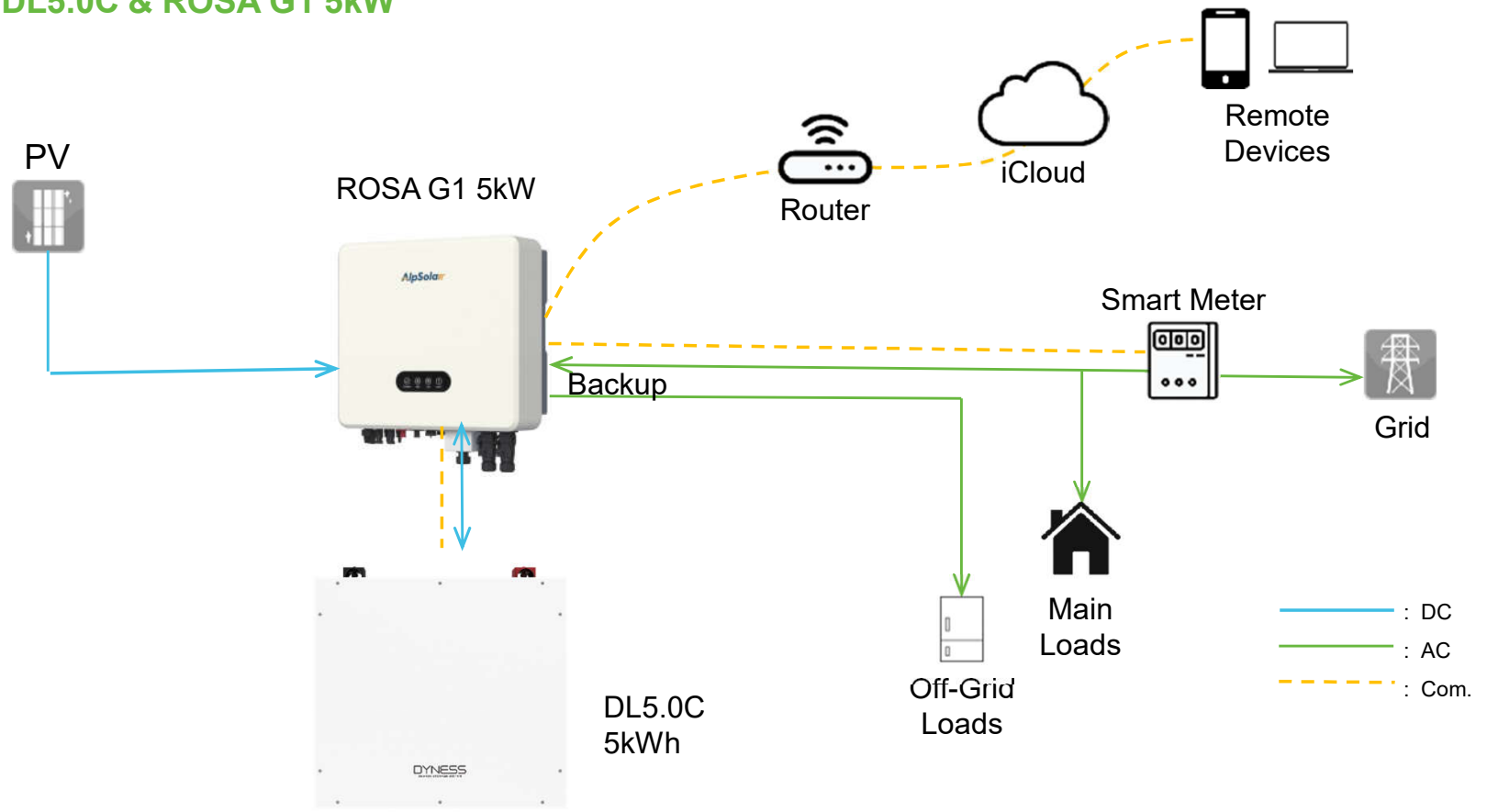
WIFI Monitoring



Customer can view Dyness battery status such as voltage, current, temperature, etc. via Dyness App.

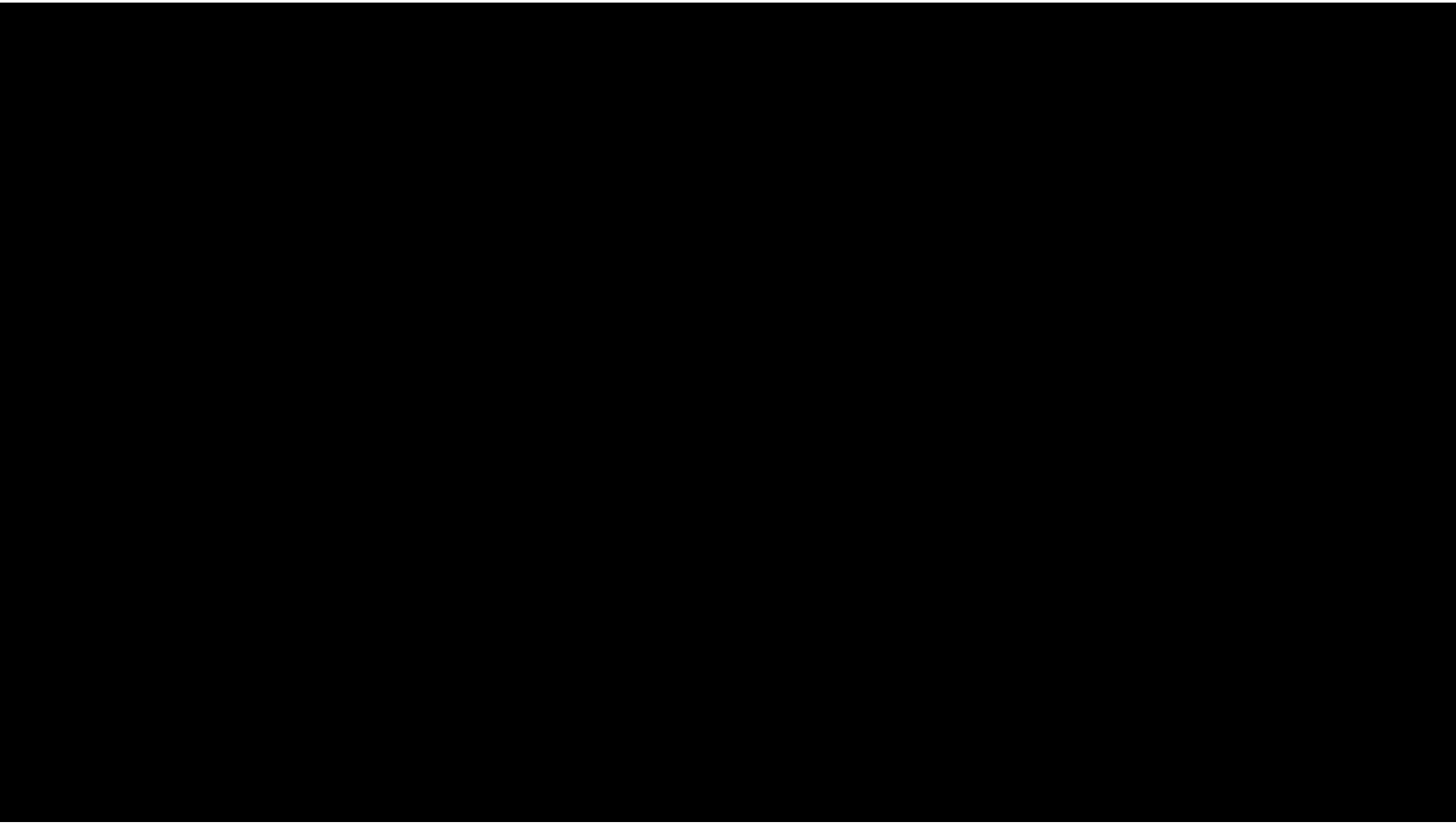
Energy Storage Solution

DYNESS DL5.0C & ROSA G1 5kW



Part 04

C&I PRODUCTS



STACK100

Model	STACK100
Battery Type	LiFePO4
Module Voltage/Capacity	51.2V/100Ah
System Modules Serial Number	3~15
System Energy Range	15.36-76.8kWh
Operating Voltage	134-876V
Recommended Charge/Discharge Current	50A (0.5C)
Max. Charge/Discharge Current	100A (1C)
Peak Discharge Current(2min 25℃)	125A(1.25C)
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life	6000 cycles / 10 Years
Signal Module Weight	47Kg
Max. Single Cluster Dimension[W*D*H]	591*390*1700mm - 11 module
Charging Temp. Range	0 ~ 55℃
Discharging Temp. Range	—20 ~ 55℃
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	Deye/Goodwe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.

STACK100

Max Discharge C-rate 1C

Easy installation and maintenance

Plug and play in connector,
IP20 Indoor installation. Easy to replace BMS

Flexible space layout

Each cluster from 3 units to 15 units,
adding new modules within 3 years

Flexible Expansion

Expandable to a maximum of 957.6kWh
in parallel, no need 2nd –level BMS control

High Performance

1C charging & discharging
Tier 1 battery cell, built-in air-cooling system

Safety

Each PACK has an independent Aerosol fire extinguishing device

Storage temperature: 5 ℃ ~ +45 ℃

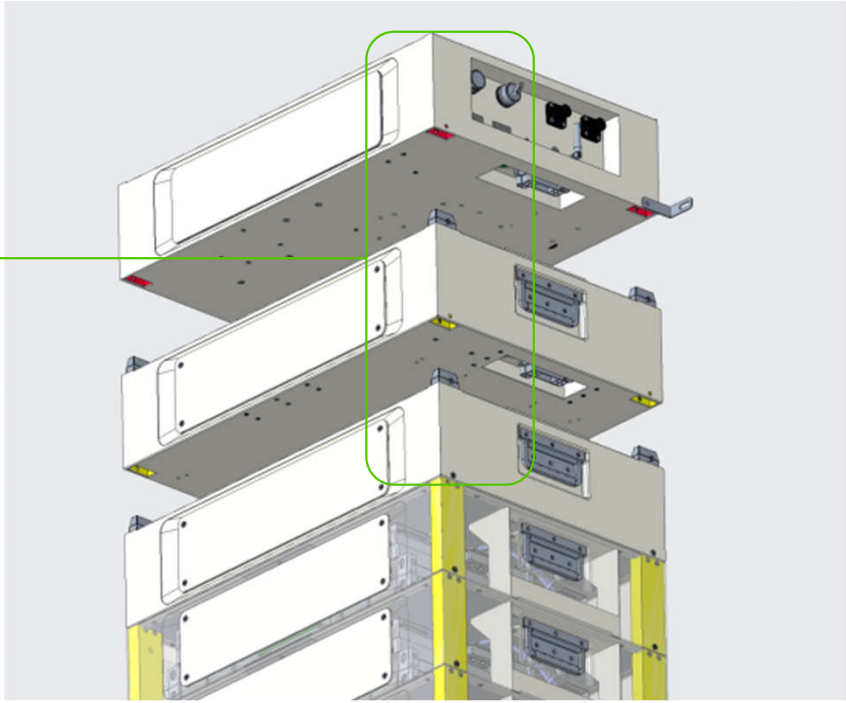
Relative humidity: 0-85%RH

STACK100

Rackless stackable design with integrated support by steel frame

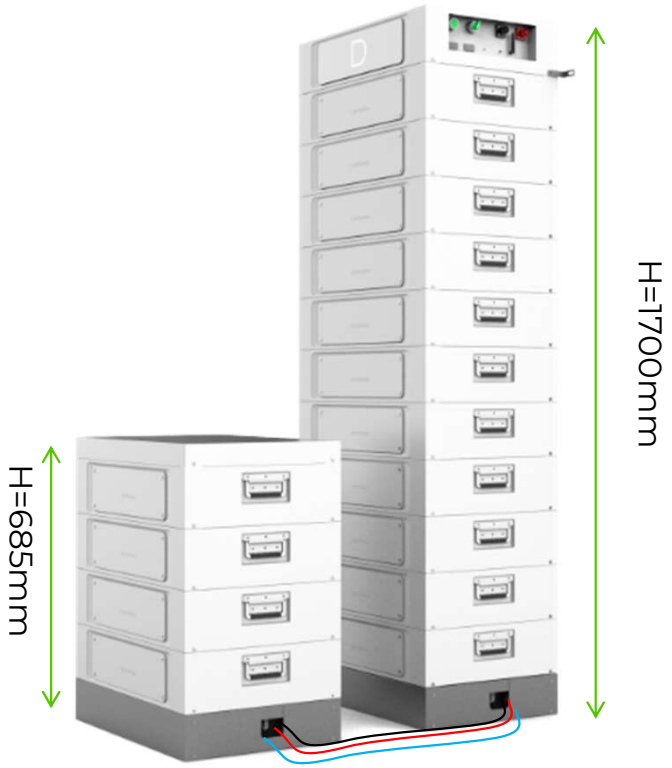
The integrated steel skeleton inside the module housing improves the load-bearing capacity;

Modular design for easy transportation/Installation

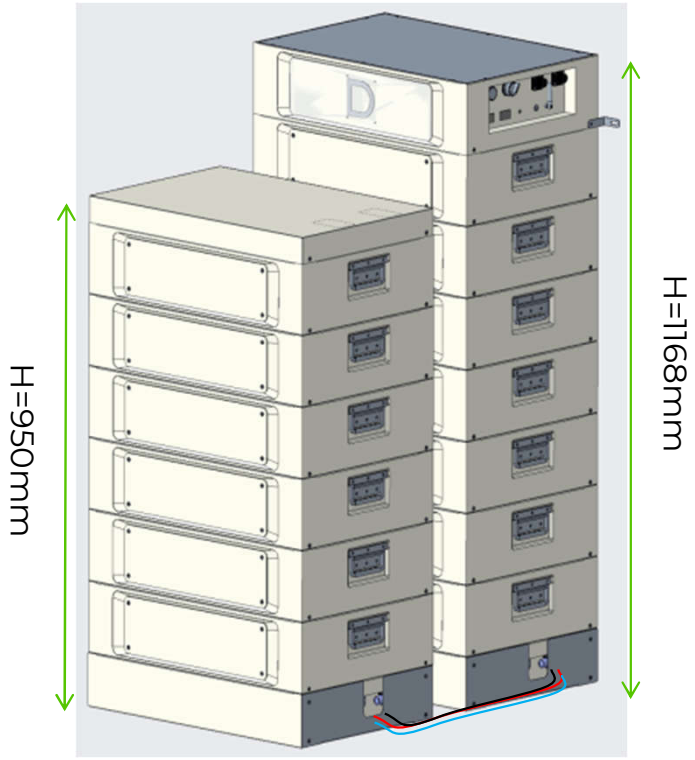


STACK100

Flexible space layout ability



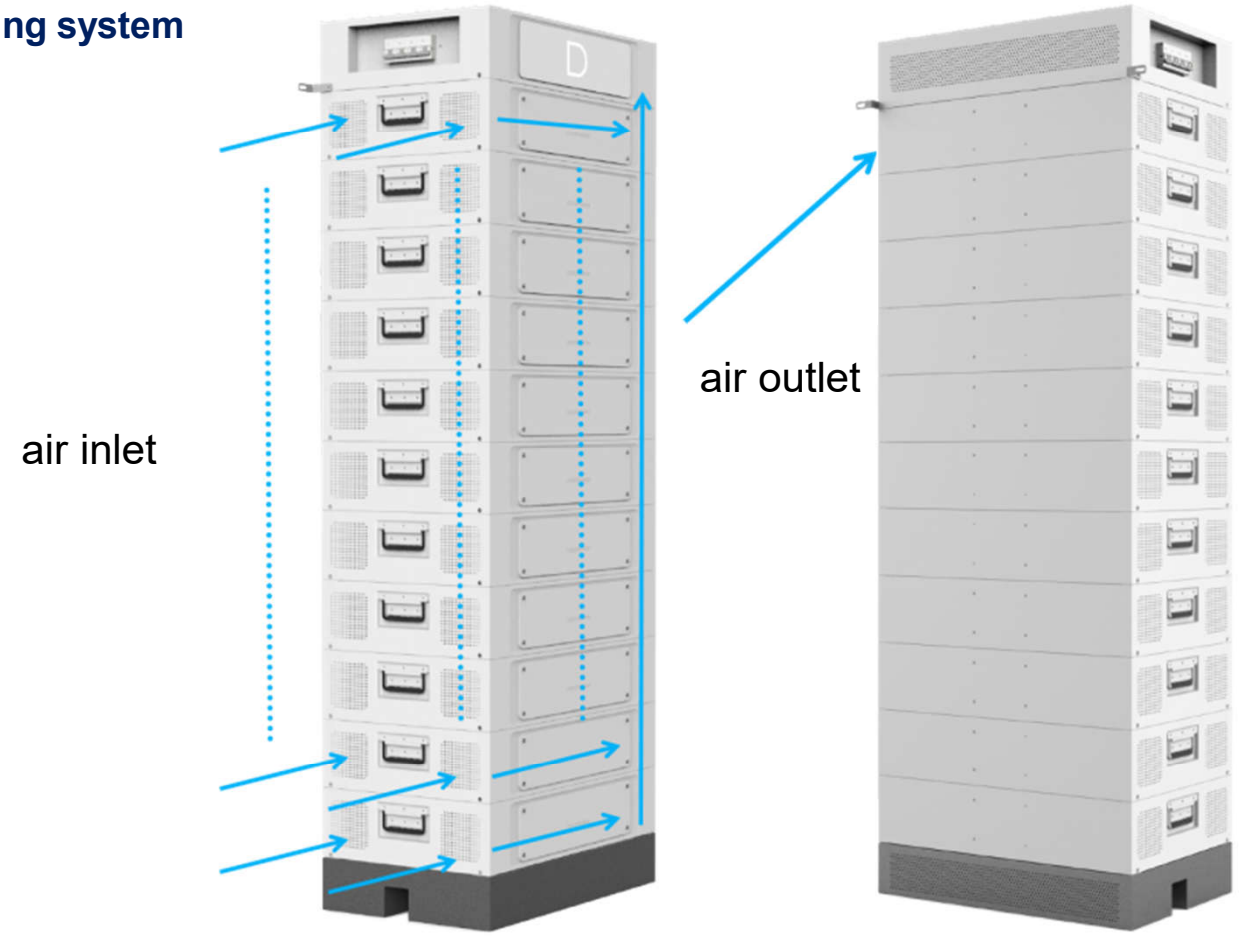
Option1：15 modules in series(4+11)，76.8KWh



Option2：13 modules in series(6+7)，66.56KWh

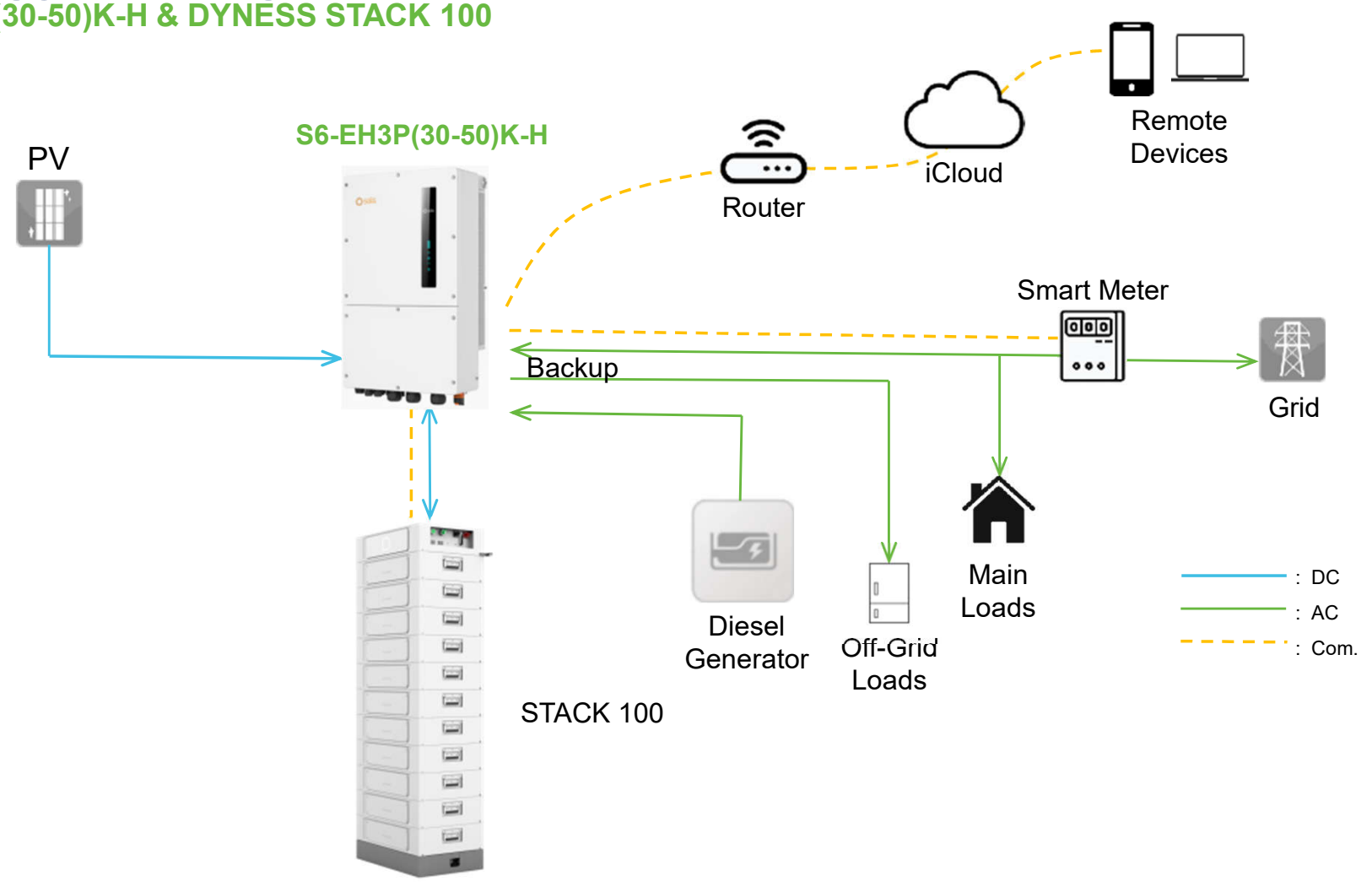
STACK100

Built-in air-cooling system



Energy Storage Solution

S6-EH3P(30-50)K-H & DYNESS STACK 100



PowerRack -HV4 (High-Voltage)

548*568*1412/2012 mm

4-11 Modules in series

Two Rack options: 7s or 11s

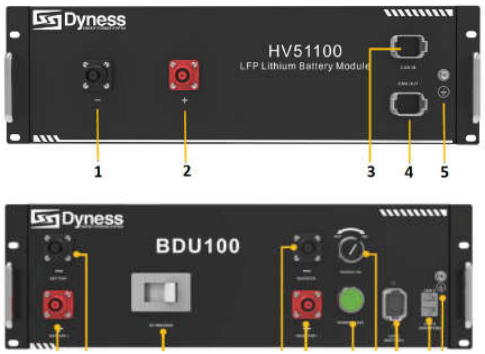
Max. 12 Clusters in parallel

High Safety
LFP & smart BMS

Voltage Range
179~876V

High Voltage
High system Efficiency

Expandable
Max 76.8kWh per cluster

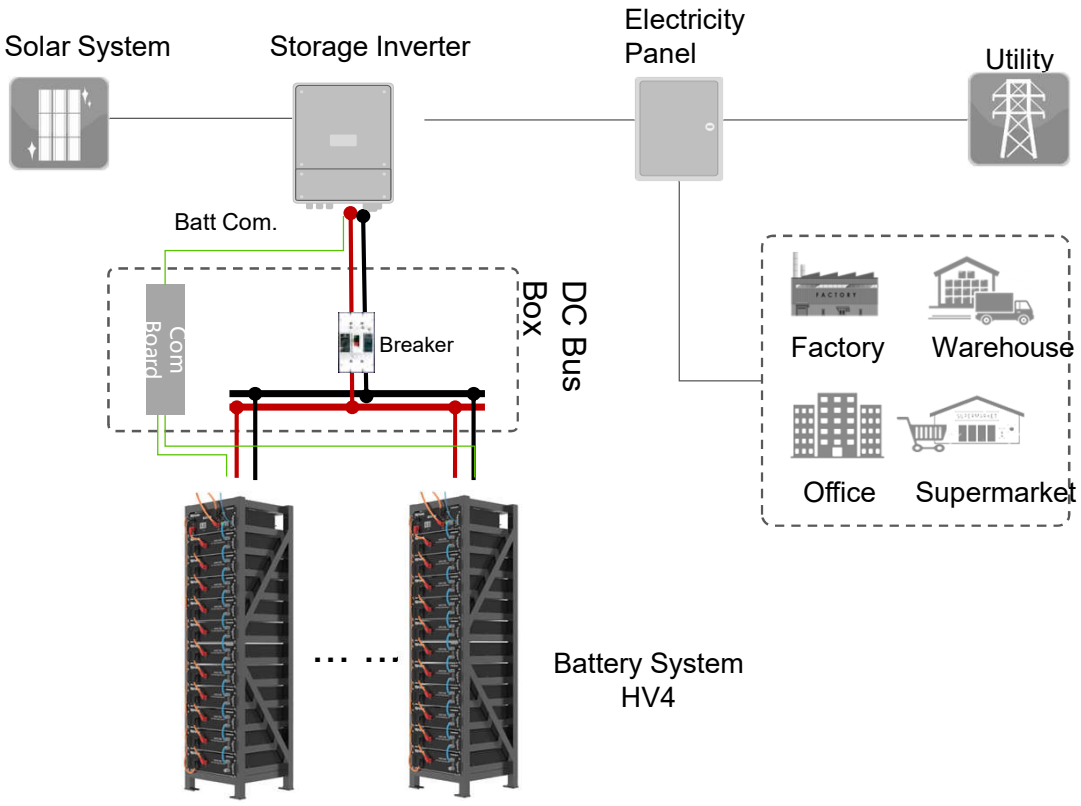


Model	Rack System HV4	
Rack Type	PowerRackHV4-7s	PowerRackHV4-11s
Battery Module Type	HV51100	HV51100
Battery Module Quantity	7units	11units
Nominal Battery Energy	35.84kWh	56.32kWh
Nominal Capacity	100Ah	100Ah
Nominal Voltage	358.4V	563.2V
Operating Vol. Range	313.6-403.2V	492.8-633.6V
Nominal Power Output	21.5kW	33.79kW
Max. Power Output	35.84kW	56.32kW
Recommend Charging Current	50A	50A
Recommend Discharging Current	50A	50A
Net Weight	397.5kg	646.5kg
Dimension(WDH)	548*568*1412mm	548568*2012mm
Rack System Control unit Type	BDU100	BDU100
Module Quantity and Configuration	7 Units in series	11 Units in series

Storage temperature: 5 ℃ ~ +45 ℃

Relative humidity: 5%-85% RH

PowerRack -HV4 (High-Voltage)

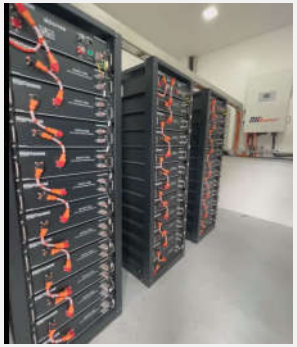


Rack Name	**PowerRack HV4**
Applicable Module	**HV51100**
Combiner Box & Related Cables	Customized
Secondary Host	Integrated in Combiner Box
Rack Bracket	Customized
Max. number of batteries per rack	11
Max. number of clusters in parallel	12
Max. System Capacity / kWh	676

Project Cases

HV4,Netherlands, Europe

Back-up power



HV4,Philippines, Southeast Asia

Back-up power

HV4, South Africa,Johannesburg

Self-use & Back-up power

DL5.0C, Manila, the Philippines

Backup power

HV4,Philippines, Southeast Asia

Back-up power

Tower, Nuremberg, Germany

Self-use

DL5.0C, Manila, the Philippines

Backup power

DL5.0C, Manila, the Philippines

Backup power

DH100F

DYNESS

C&I Storage System

All-in-one integrated system design inside the Cabinet to fulfill C&I scenarios.

All-in-one
PV+ESS

Operation temperature: -20 ℃ ~ +60 ℃

Storage temperature: -20 ℃ ~ +45 ℃

Relative humidity: 0-95%RH

Product features

Full-scenario

All-in-one multifunctional integration, supporting PV and generator access, grid-to-off-grid switching.

Ultimate security

Aerosol fire suppression with three-level detections

Flexible expansion

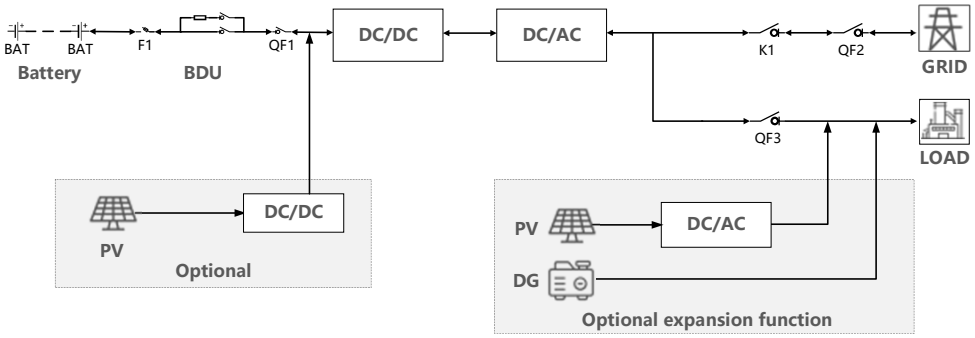
71~100kwh capacity available for single unit；Reserved DC expansion interface; Support AC expansion;

Highly efficient and low-cost

280Ah LFP battey with high energy density. EMS Intelligent control；Modular design，backwards output method, reduce infrastructure cost.

DH100F

- 100kWh + 50kW PCS per cabinet
- Supports Expanded Capacity
- Air Conditioning cooling
- Communication:Ethernet/RS485/CAN/USB
- IP55 Protection Degree
- High Safety, Smart Control



Product Parameters

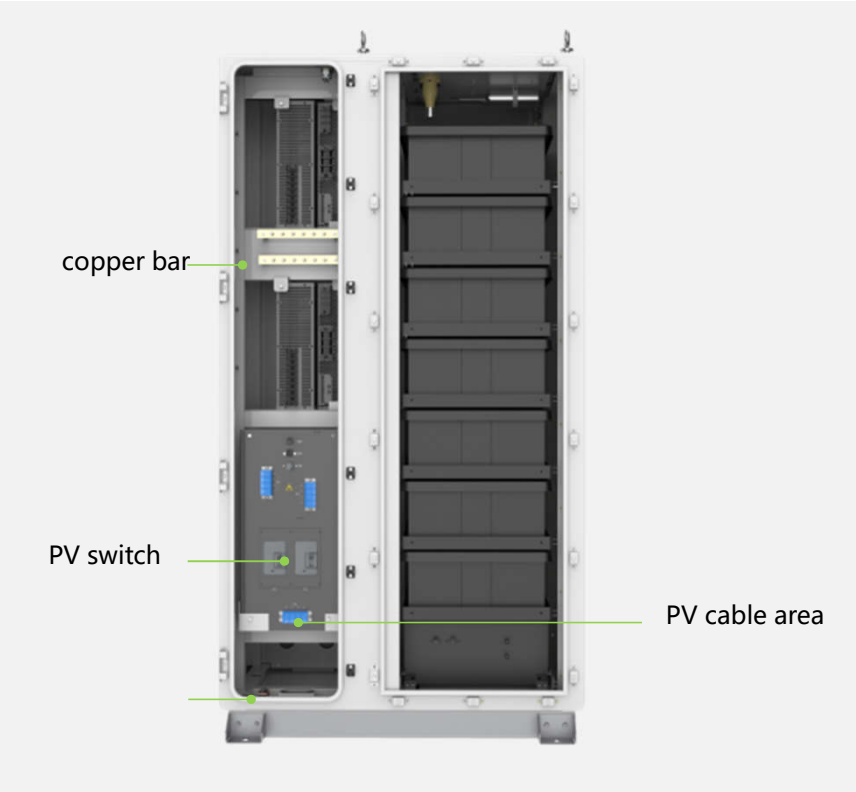
Model	DH100F-71kWh	DH100F-86kWh	DH100F-100kWh
Battery system specification parameters:			
Battery type	LFP (280Ah)		
Pack configuration	1P16S		
Rated current	140A (0.5C)		
Max. current	160A		
PACKquantities	5Pack	6Pack	7Pack
System capacity	71kwh	86kwh	100kwh
AC specification parameters (on-grid):			
Rated power	35kW	43kW	50kW
AC rated current	51A	62A	72A
AC rated voltage	230/400V		
Wiring method	3P4L+PE		
Frequency	50Hz/60Hz		
AC specification parameters (off-grid):			
Rated power	35kVA	43kVA	50kVA
Max. AC current	51A	62A	72A
AC rated voltage	230/400V		
Wiring method	3P4L+PE		
Frequency	50Hz/60Hz		
Unbalanced load carrying	100%		
PV access			
Max. input power	25kW *2	30kW *2	35kW *2
Max. current	80A		
Max. short-circuit current	150A		
Start-up voltage	310V	370V	430V
Input voltage	300~1000V		
MPPT paths	2		
System specification:			
Dimension (W*D*H)	1200*1180*2258 mm (TBD, lifting ring not included)		
Weight	Approx. 1500kg(TBD)		
Temperature	-20~50℃ (derating above 45℃)		
Humidity	0~95% (no condensing)		
Ingress protection	IP55		
Anti-corrosion grade	C3		
Noise	≤70dB (TBD)		
Elevation	3000m (Derating above 2000m)		
Cooling method	Air cooling		
EMScommunications	Ethernet/RS485/CAN/USB		

DH100F

Product Structure

1. front-back wind tunnel，less noise
2. cable outlet：bottom/backward， reduce infrastructure cost with no need to install concrete base
3. backward cable output module， backward maintenance solution

FRONT



BACK

Dyness

DYNESS

DH200F

C&I Storage System

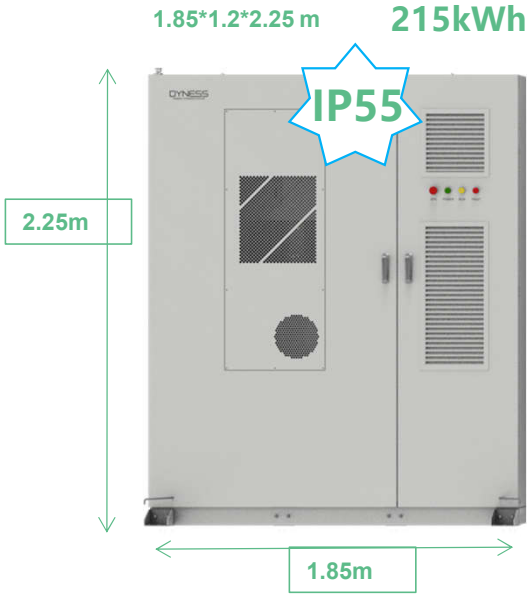
All-in-one integrated system design inside the Cabinet to fulfill C&I scenarios.

- Overall solar+storage solution
- All-in-one design concept
- High-level safety design
- Convenient outdoor setup
- Allow flexible system design
- Capacity expandable to megawatts

COMMERCIAL & INDUSTRIAL PRODUCTS

DH200F

The cabinet supports outdoor use, integrated inside with battery modules, storage PCS, air conditioner and fire extinguisher.



- 215kWh + 100kW PCS per cabinet
- Expendable to 2.5MWh + 1200kW PCS
- Air Conditioning cooling
- Communication:Ethernet/RS485/CAN/USB
- IP55 Protection Degree
- High Safety, Smart Control

15 Modules in one cabinet
Independent packaging

Operation temperature: -20 ℃ ~ +50 ℃

Storage temperature: -20 ℃ ~ +45 ℃

Relative humidity: 0-95%RH

Technical parameters of DH200F

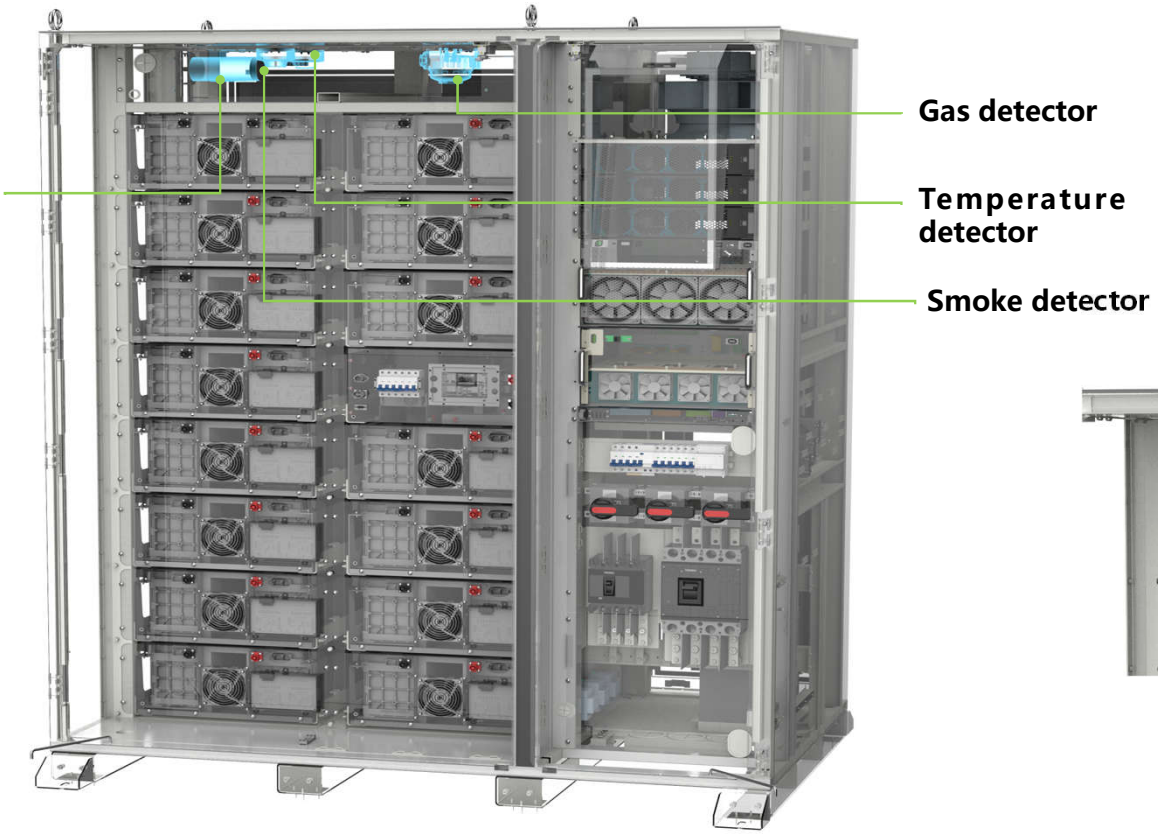
Battery Specifications	
Battery Module Type	HV51280F
Cell Capacity	280Ah
Battery Voltage Range	672~864V
Nominal Current	140A (0.5C)
System Storage Power	215kWh
AC Specifications (on-grid)	
Nominal Power	100kW
AC Nominal Voltage	400V
Wiring	3P4L+PE
Nominal Frequency	50Hz
AC Maximum Current	158A
AC Specifications (off-grid)	
Nominal Power	100kW
AC Nominal Voltage	400V
Wiring	3P4L+PE
Nominal Frequency	50Hz
AC Maximum Current	158A
Unbalanced Load Capacity	100%
Photovoltaic Input	
MPPT Voltage Range	200-670V
MPPT channels	Up to three
Input Power	Single channel 50kW
System Specifications	
Dimensions (W*D*H)	1850*1200*2250mm
Weight	≈3300kg
System Round-trip Efficiency	91% (TBD)
Operation Temperature	-20~55℃
Operation Humidity	0~95%
Protection Level	IP55
Anti-corrosion Level	C3
Noise Level	≤75dB
Altitude	≤3000m
Cooling System	Fan Cooling
Communication	Ethemnet /RS485/CAN/USB
Certification	CE/CQC

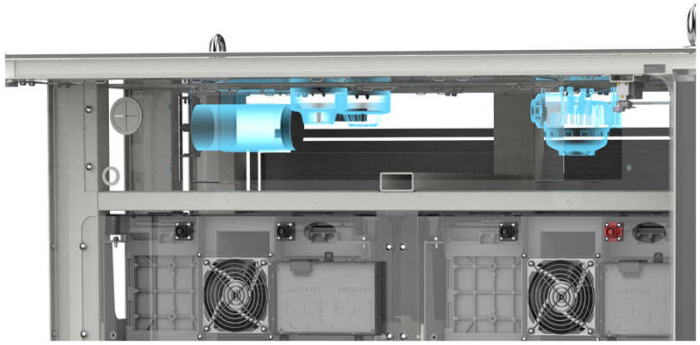
COMMERCIAL & INDUSTRIAL PRODUCTS

DH200F

COMMERCIAL & INDUSTRIAL PRODUCT

DH200F : ALL-IN-ONE SYSTEM



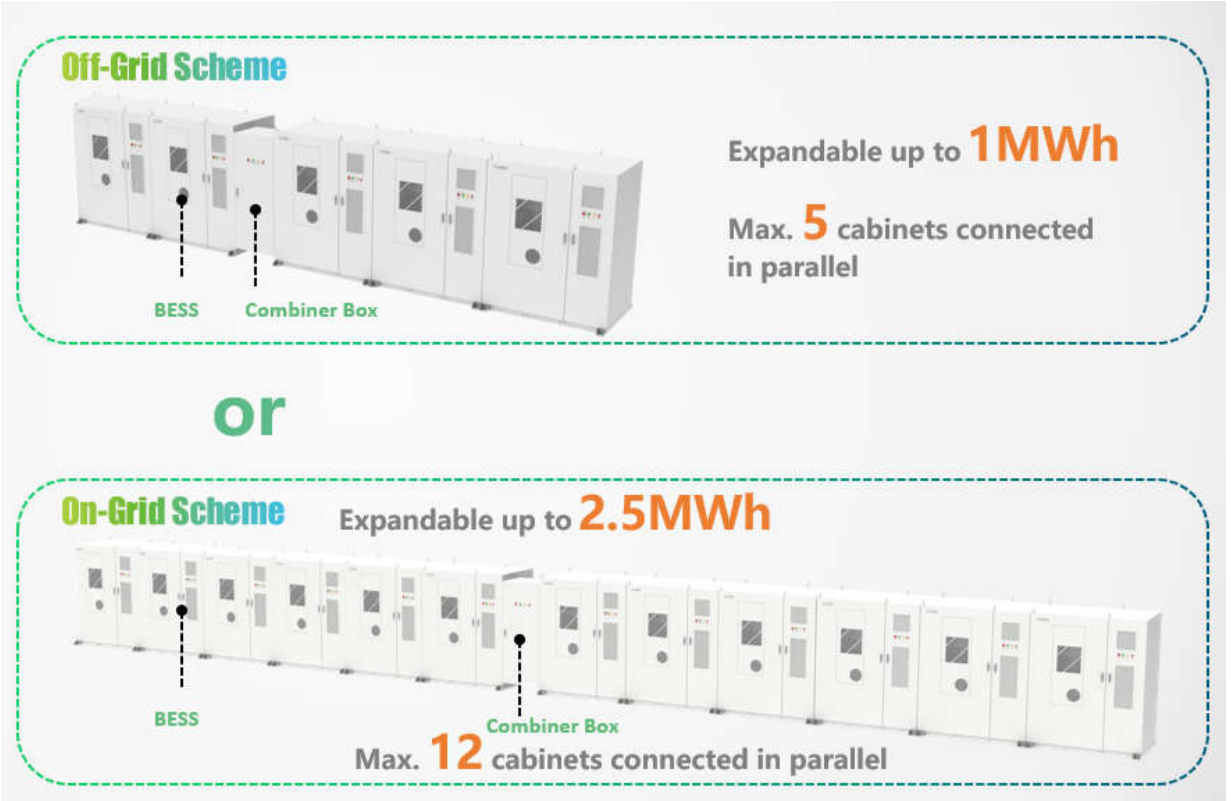


COMMERCIAL & INDUSTRIAL PRODUCTS

DH200F : ALL-IN-ONE SYSTEM

15 * HV51280F

100kW / 215kWh



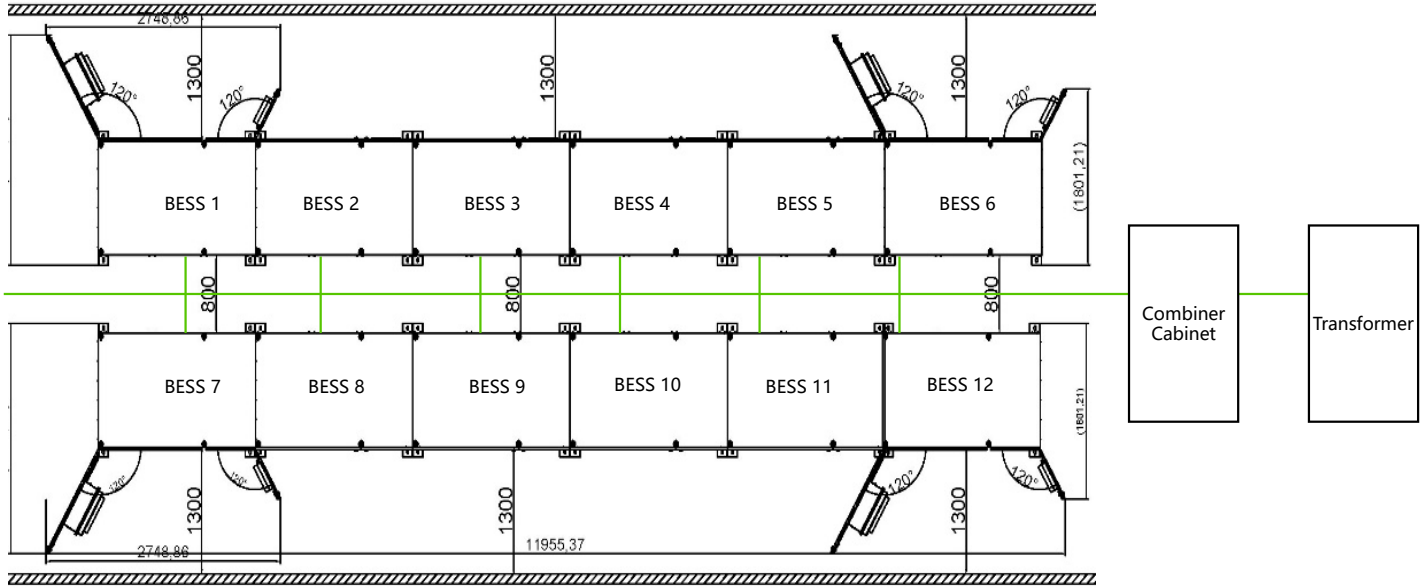
Supports outdoor use, integrated with battery modules, 100kW PCS, air conditioner ,FSS(fire suppression system) ,MPPT modules(optional), supports multi-communication:Ethernet/RS485/CAN/USB

COMMERCIAL & INDUSTRIAL PRODUCTS

DH200F : ALL-IN-ONE SYSTEM

Easy Installation: Standard cabinet-type All-in-one design,easier wiring,less installation costs

Flexible Expansion: Supports expansion from KWh level to MWh level



Dyness Battery Cases Globally

Centurion, south Africa

Self-use & Back-up power

Henan, China

Peak-valley arbitrage

Shenzhen, China

Peak-valley arbitrage,

capacity expansion

Rotterdam, Netherlands

Capacity expansion

Hungary, Europe

Self-use & peak-shaving

Spain, Europe

Self-use

Dyness Self-developed Cloud Platform

DYNESS

Part 05

COMPETITOR COMPARISION

Comparison between Dyness and Felicity LV Batteries

LPBF48250-P

MODEL	LPBF48250	LPBF48300
Usable Capacity	12.5KWh	15KWh
Nominal Voltage	51.2V	
Voltage Range	48-57.6V	
Recommend Charge & Discharge Current	⩽120A	
MAX. Charge & Discharge Current	200A@15S	
Recommend Output Power	⩽6000W	
MAX. Output Power	10000W@120S	
DOD	>95%	
Scalability	Up to 6 units in parallel	
Communication	CAN&RS485	
Ingress Protection	IP21	
Cycle Life	⩾6000@25°C , 80%DOD	
Working Temperature Range	Discharge: -20°C to + 65°C, Charge: + 0°C to + 55°C	
Net Weight(KG)	154KG	
Gross Weight(KG)	177KG	
Product Dimension(MM)	615*350*955MM	
Package Dimension(MM)	715*450*1115MM	

PowerBrick

14.3KWh

- Recommend 140A
- Continuous 200A，**10.24KW**
- Recommend 7.1kW
- Continuous **10.24KW**
- Max 50 units in parallel
- 8000 cycles, tie 1 cell CALB
- 115kg; lighter by 39kg
- 429*228*822; 40% size
- 10 years warranty vs 3-5 years warranty

Comparison between Dyness and Deye LV Batteries

Powerbrick

RW-F10.2

Advantages of Dyness Powerbrick

1. Built-in WiFi module to support remote monitoring and upgrade function
2. It only needs to connect and upgrade one battery and others will follow for OTA upgrade
3. Master and slave will automatically configure without settings
4. Max 50 units in parallel VS Deye 32 units
5. Optional built-in aerosol fire extinguisher
6. Tier 1 battery cells CALB
7. 8000 cycles , 95%DoD VS Deye 6000 cycles, 90%DOD
8. 14.3kWh and cost-effective
9. working with leading inverters

Comparison between Dyness and Deye HV Batteries

Stack100

BOS-G

Advantages of Dyness Stack100

1. Stackable rack will save transport and material cost
2. Stackable rack has no external wiring, just plug and play, saving installation time and cost
3. Stackable is more flexible in battery configuration
4. Internal fan cooling duct will make sure even heat dissipation, better battery performance, and 10 years warranty
5. Built-in aerosol fire extinguisher
6. Maintenance plate is in front of battery module, easy for maintain or replace BMS
7. Built-in WiFi module will let customer monitor battery status at cell level via Dyness app and easier for after-sales maintenance
8. LED color on BDU can be programmable to show battery working status

DYNESS

Part 06

COMPATIBILITY

Compatibility List

DYNESS

SMA

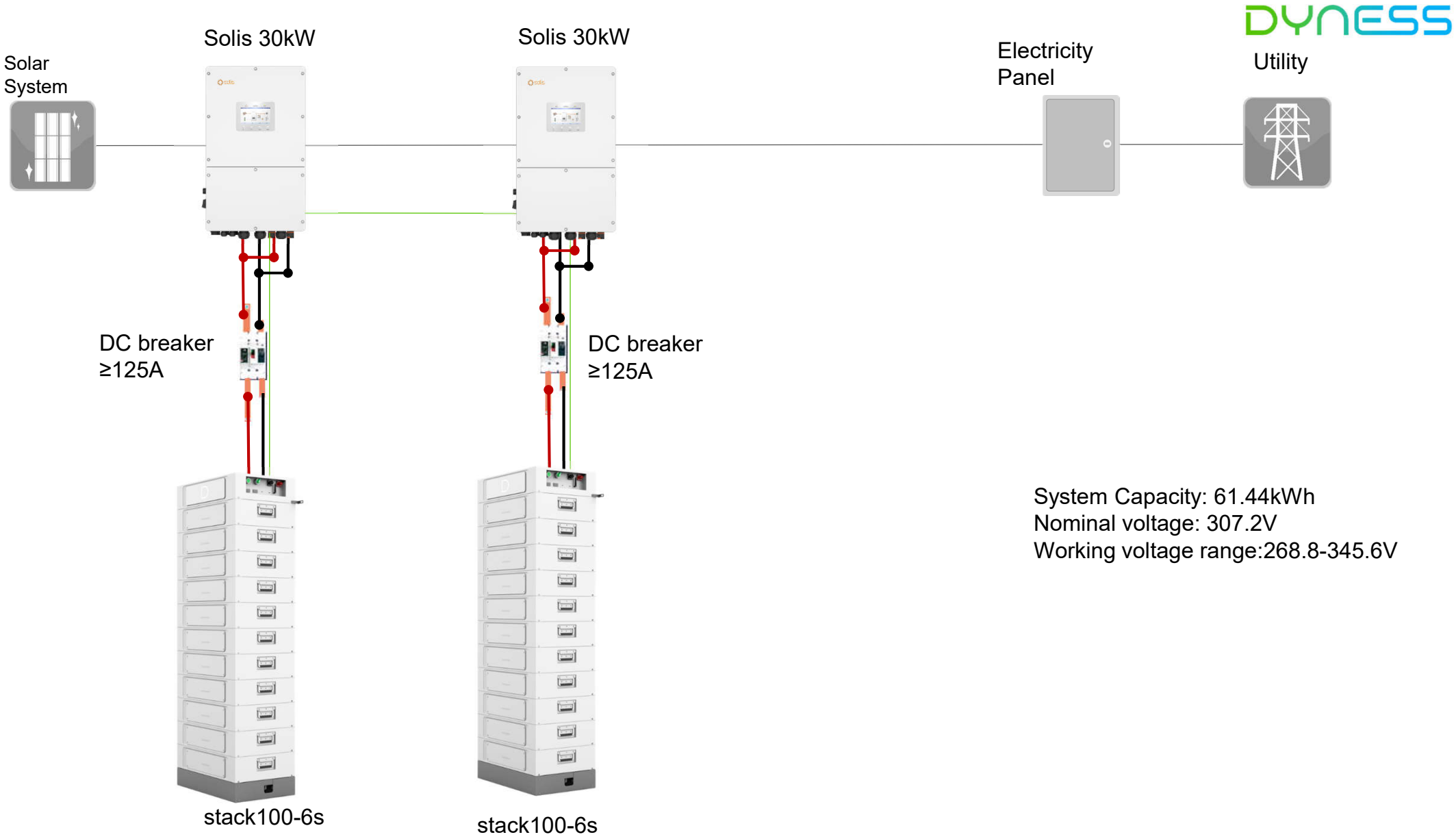
Ingeteam

victron energy
BLUE POWER

...

LV Compatibility list.pdf

HV compatibility.pdf


Solar System
Solis 30kW
Solis 30kW
Electricity Panel
Utility
DC breaker ≥125A
DC breaker ≥125A
stack100-6s
stack100-6s
System Capacity: 61.44kWh
Nominal voltage: 307.2V
Working voltage range:268.8-345.6V


DYNESS
THANKS!
Dyness
www.dyness.cn