



DYNESS

# Dyness

HOME ENERGY STORAGE SOLUTIONS



Discover Your Nature

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# About Dyness

Dyness, founded in 2017, is a global pioneering energy storage system 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 City, 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.



**100+**  
Global Markets



**150+**  
R&D Staff



**2**  
Production Centres



**120+**  
IPRs

# Global Footprint



**13+**  
Global Branches

**100+**  
Global Markets

**500,000+**  
Users

**Top 100**  
Energy Brand By EUPD

# Dyness Home Energy Storage Solution

1

## DYNESSE Battery:

Store excess solar and use it to balance house consumption and power supply. Provide backup power for your home during blackout.

2

## Inverter:

Matching with leading inverters.

3

Cooperate with APP to realize Rapid Shutdown of solar panels on roof.

3

2

1

# Product overview

## Trusted Residential Energy Storage Solutions



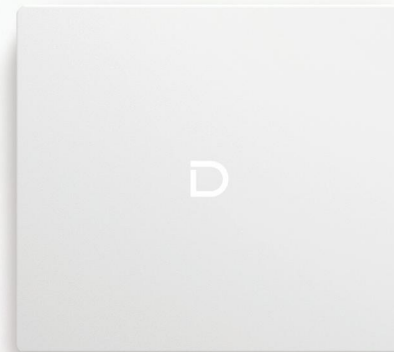
# Reliable Low Voltage Home Energy Storage Systems

25.6~51.2V

B4850/B4850-BOX/DL3.6/B3/DL2.5/DL5.0/DL5.0C/A48100/

PowerDepot H5B/Powerbox Pro/Powerbox G2/PowerBrick

2.4-14.33kWh





B4850-BOX



High Protection Level

IP54 protection level, waterproof and dustproof, easy to cope with indoor and outdoor application scenarios.



Various Installation Methods

Can be floor-standing or wall-mounted to satisfy different installation requirements.



Simple Battery Installation

The battery can be directly inserted and simply installed, and its top cover is fixed with strong magnetic suction instead of screws.



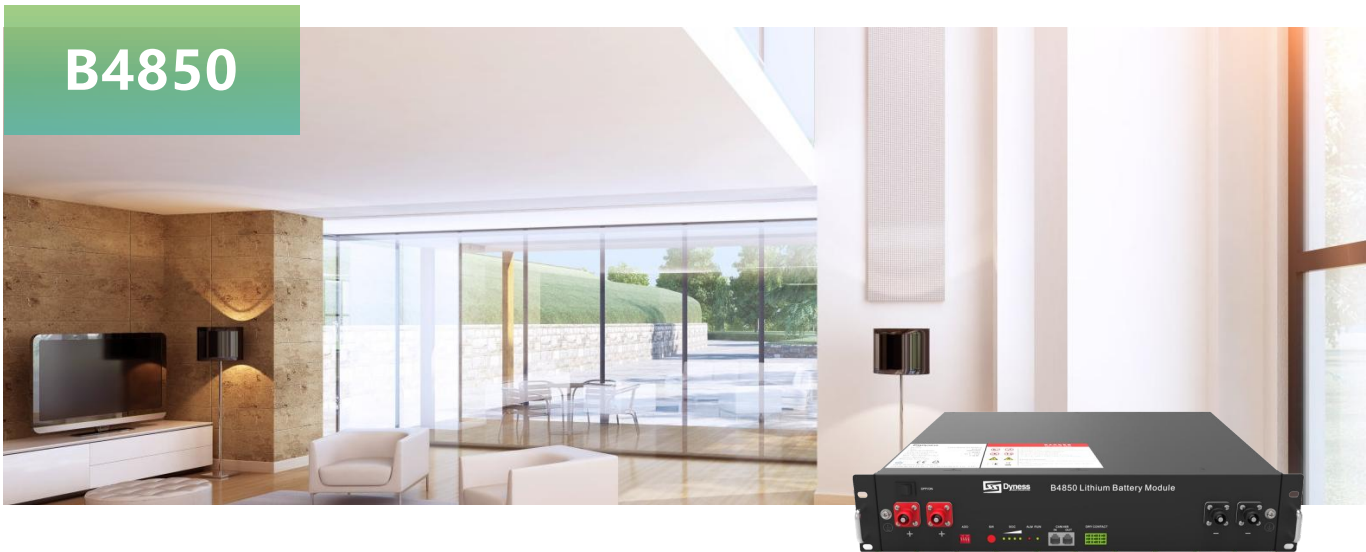
Higher Battery Capacity

It features up to 4.8kWh capacity to meet customers' power demands.

Technical Specifications

| Model                                | B4850-BOX         |
|--------------------------------------|-------------------|
| Number of Batteries                  | 2                 |
| Battery Type                         | LiFePO4           |
| Nominal Battery Energy               | 4.8kWh            |
| Nominal Capacity                     | 100Ah             |
| Nominal Voltage                      | 48V               |
| Operating Voltage                    | 42 ~ 54.75V       |
| Recommended C Rate                   | 0.5C              |
| Recommended Charge/Discharge Current | 50A               |
| Max. Power Charge/Discharge Current  | 100A              |
| Peak Power Charge/Discharge Current  | 110A(Protect)     |
| Depth of Discharge                   | 90%               |
| Net Weight                           | 53kg              |
| Dimension[W x D x H]                 | 507 x 216 x 457mm |
| Charging Temp. Range                 | 0 ~ 55°C          |
| Discharging Temp. Range              | -20 ~ 55°C        |
| Communication                        | CAN/RS485         |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles      |
| Protection Level                     | IP54              |

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD



B4850

The DYNESS battery B4850 module is widely used in energy storage sector. It adopts modular design and can be used for residential applications. The reliable LiFePO4 technology ensures maximum safety and a longer life cycle.



Module Design  
Flexible expansion



Easy Installation  
Stackable with flexible brackets



High Safety LFP  
Cell level monitoring and balancing



Wide Compatibility  
Matching with leading inverters

Technical Specifications

| Model                                | B4850                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                              |
| Nominal Battery Energy               | 2.4 kWh                                                                              |
| Nominal Capacity                     | 50Ah                                                                                 |
| Nominal Voltage                      | 48V                                                                                  |
| Operating Voltage                    | 42 ~ 54.75V                                                                          |
| Recomended Charge & Discharge C Rate | 0.5C                                                                                 |
| Recommended Charge/Discharge Current | 25A                                                                                  |
| Max. Power Charge/Discharge Current  | 50A                                                                                  |
| Peak Power Charge/Discharge Current  | 55A (Protect)                                                                        |
| Depth of Discharge (DOD)             | 90%                                                                                  |
| Net Weight                           | 22 kg                                                                                |
| Dimension[W*D*H]                     | 480*360*90mm/480*405*90mm                                                            |
| Charging Temp. Range                 | 0~55°C                                                                               |
| Discharging Temp. Range              | -20~55°C                                                                             |
| Communication                        | CAN/RS485                                                                            |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                                                                         |
| Protection Level                     | IP20                                                                                 |
| Expansion                            | Up to 40 units in parallel                                                           |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design                       |
| Certification & Safety Standard      | UN38.3/CE-EMC/IEC62619/IEC62040/CEC Accredited/CEI-021/UL1973/REACH/ROHS/UKCA/GOST-R |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Growatt/APS etc.         |

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD



With a 19" inch modular design and built-in intelligent BMS protection system, Dyness B3 enables flexible expansion and easy installation & maintenance. It adopts LiFePO4 technology for maximum safety and longer cycle life.

- 

**Module Design**  
Flexible expansion
- 

**Easy Installation**  
Stackable with flexible brackets
- 

**High Safety LFP**  
Cell level monitoring and balancing
- 

**Wide Compatibility**  
Matching with leading inverters

Technical Specifications

| Model                                | B3                                                                           |
|--------------------------------------|------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                      |
| Nominal Battery Energy               | 3.6 kWh                                                                      |
| Nominal Capacity                     | 75Ah                                                                         |
| Nominal Voltage                      | 48V                                                                          |
| Operating Voltage                    | 42 ~ 54.75V                                                                  |
| Recomended Charge & Discharge C Rate | 0.5C                                                                         |
| Recommended Charge/Discharge Current | 37.5A                                                                        |
| Max. Power Charge/Discharge Current  | 50A                                                                          |
| Peak Power Charge/Discharge Current  | 55A (Protect)                                                                |
| Depth of Discharge (DOD)             | 90%                                                                          |
| Net Weight                           | 31 kg                                                                        |
| Dimension[W*D*H]                     | 480*360*130 mm                                                               |
| Charging Temp. Range                 | 0~55°C                                                                       |
| Discharging Temp. Range              | -20~55°C                                                                     |
| Communication                        | CAN/RS485                                                                    |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                                                                 |
| Protection Level                     | IP20                                                                         |
| Expansion                            | Up to 40 units in parallel                                                   |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design               |
| Certification & Safety Standard      | UN38.3/CE-EMC/IEC62040/IEC62619/GOST-R/UKCA/CEC Accredited/CEI-021           |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Growatt/APS etc. |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD



DYNESS DL3.6 is low-voltage energy storage product which adopts high safety LFP technology. With 3.6 kWh each, it can support up to 180 kWh with 50 modules connected in parallel. It also supports remote update & easy monitoring. Meet this efficient product with perfect performance.

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

**Module Design**  
Flexible expansion
- 

**Easy Installation**  
Stackable with flexible brackets
- 

**High Safety LFP**  
Cell level monitoring and balancing
- 

**Wide Compatibility**  
Matching with leading inverters

Technical Specifications

| Model                                | DL3.6                                                                        |
|--------------------------------------|------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                      |
| Nominal Battery Energy               | 3.6 kWh                                                                      |
| Nominal Capacity                     | 75Ah                                                                         |
| Nominal Voltage                      | 48V                                                                          |
| Operating Voltage                    | 42 ~ 54.75V                                                                  |
| Recomended Charge & Discharge C Rate | 0.5C                                                                         |
| Recommended Charge/Discharge Current | 37.5A                                                                        |
| Max. Power Charge/Discharge Current  | 75A                                                                          |
| Peak Power Charge/Discharge Current  | 100A (15s)                                                                   |
| Depth of Discharge (DOD)             | 90%                                                                          |
| Net Weight                           | 32.5 kg                                                                      |
| Dimension[W*D*H]                     | 480*405*132 mm                                                               |
| Charging Temp. Range                 | 0~55°C                                                                       |
| Discharging Temp. Range              | -20~55°C                                                                     |
| Communication                        | CAN/RS485/RS232                                                              |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                                                                 |
| Protection Level                     | IP20                                                                         |
| 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                                                       |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Growatt/APS etc. |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD



DL5.0 has a larger capacity design for residential and commercial storage applications. Up to 50 batteries can be connected in parallel to meet the needs of more users. The optional OTA function enables remote update & easy monitoring. Powerful, high capacity and modular.

- APP Monitoring  
(optional)  
Real-time monitoring &  
Remote upgrade
- Module Design  
Flexible expansion
- Easy Installation  
Stackable with  
flexible brackets
- High Safety LFP  
Cell level monitoring  
and balancing
- Wide Compatibility  
Matching with  
leading inverters

Technical Specifications

| Model                                | DL5.0                                                                        |
|--------------------------------------|------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                      |
| Nominal Battery Energy               | 5.12 kWh                                                                     |
| Nominal Capacity                     | 100Ah                                                                        |
| Nominal Voltage                      | 51.2V                                                                        |
| Operating Voltage                    | 44.8 ~ 57.6V                                                                 |
| Recomended Charge & Discharge C Rate | 0.5C                                                                         |
| Recommended Charge/Discharge Current | 50A                                                                          |
| Max.Continuous Discharge Current     | 100A(1C)                                                                     |
| Max. Power Charge Current            | 75A                                                                          |
| Peak Power Charge/Discharge Current  | 110A (15s)                                                                   |
| Depth of Discharge (DOD)             | 90%                                                                          |
| Net Weight                           | 44 kg                                                                        |
| Dimension[W*D*H]                     | 481*535*140 mm                                                               |
| Charging Temp. Range                 | 0~55°C                                                                       |
| Discharging Temp. Range              | -20~55°C                                                                     |
| Communication                        | CAN/RS485/RS232                                                              |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                                                                 |
| Protection Level                     | IP20                                                                         |
| 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                                                       |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Growatt/APS etc. |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD



Dyness DL2.5 is a good alternative for lead acid battery and a perfect match for off-grid applications in areas with limited or no grid access. It is scalable from 2.56kWh to 40.96kWh (up to 16 units in parallel), offering you sufficient capacity to meet different requirements.

- Lead-acid battery  
alternative  
Superior performance  
with longer lifespan
- Module Design  
Flexible expansion
- Easy Installation  
Small size and support  
wall mounting
- High Discharge Rate  
Support 1.3C  
discharge rate
- Multiple Communication  
Methods  
CAN/485/Wifi(Optional)  
communication

Technical Specifications

| Model                                  | DL2.5                                          |
|----------------------------------------|------------------------------------------------|
| Cell Technology                        | LiFePO4                                        |
| Battery Module Capacity                | 2.56 kWh                                       |
| Battery Module Voltage                 | 25.6 Vdc                                       |
| Battery Module Capacity                | 100 Ah                                         |
| Battery Module Cell Quantity           | 8 pcs                                          |
| Battery Cell Capacity                  | 320 Wh                                         |
| Battery Cell Voltage                   | 3.2 Vdc                                        |
| Battery Cell Capacity                  | 100 Ah                                         |
| Battery Module Cell Quantity in Series | 8 pcs                                          |
| Battery Module Charge Voltage          | 28.5 Vdc                                       |
| Battery Discharge Current              | 50 A (recommended) / 130 A (max 30min)         |
| Battery Charge Current                 | 50 A (recommended) / 75 A (max 40min)          |
| Depth of Discharge (DOD)               | 90%                                            |
| Cycle Life <sup>[1]</sup>              | ≥6000                                          |
| Dimension(W*D*H, mm)                   | 481*221*133mm                                  |
| Communication                          | CAN/RS485/Wifi (Optional)                      |
| Pollution Degree (PD)                  | II                                             |
| IP Grade                               | IP20                                           |
| Weight                                 | 23 kg                                          |
| Working temperature                    | Charging 0°C~+55°C / Discharging -20°C~+55°C   |
| Humidity                               | 5%~85% RH (No condensation, system work well.) |
| Storage temperature                    | -10°C~+35°C                                    |
| Compatible Inverters                   | Steca/Sorotec/Must/Victron/Growatt             |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD



This 4.8kWh LFP module supports both floor-standing and wall-mounted installations. It is equipped with OTA function for remote upgrade and monitoring. Up to 30 modules in parallel, it can meet various needs of users and enable flexible expansion.

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

**Module Design**  
Flexible expansion

**High Safety LFP**  
Cell level monitoring and balancing

**Various Mounting Methods**  
Wall-mounted, floor-standing and stacked

**Wide Compatibility**  
Matching with leading inverters

Technical Specifications

| Model                                | A48100                                                                        |
|--------------------------------------|-------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                       |
| Nominal Battery Energy               | 4.8 kWh                                                                       |
| Nominal Capacity                     | 100Ah                                                                         |
| Nominal Voltage                      | 48V                                                                           |
| Operating Voltage                    | 42 ~ 54V                                                                      |
| Recomended Charge & Discharge C Rate | 0.5C                                                                          |
| Recommended Charge/Discharge Current | 50A                                                                           |
| Max. Power Charge/Discharge Current  | 75A                                                                           |
| Peak Power Charge/Discharge Current  | 100A (15s)                                                                    |
| Depth of Discharge (DOD)             | 90%                                                                           |
| Net Weight                           | 45 kg                                                                         |
| Dimension[W*D*H]                     | 504*597*155 mm                                                                |
| Charging Temp. Range                 | 0~55°C                                                                        |
| Discharging Temp. Range              | -20~55°C                                                                      |
| Communication                        | CAN/RS485/RS232                                                               |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                                                                  |
| Protection Level                     | IP20                                                                          |
| Expansion                            | Up to 30 units in parallel                                                    |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design                |
| Certification & Safety Standard      | UN38.3/CE-EMC/IEC62619/IEC60730/CEI-021/GOST-R/UKCA                           |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis /Deye/SAJ/Voltronic/Growatt/APS etc. |



Dyness DL5.0C adopts economic design, and is tailor-made for residential and small commercial application. This LFP battery module supports remote upgrade and APP monitoring, and provides multiple installation methods. It is scalable from 5.12kWh to 256kWh (max. 50 modules in parallel), providing various energy options to meet different requirements.

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

**Support Battery Charge (optional) & Discharge under low ambient temperature**

**Various Mounting Methods**  
Wall-mounted, floor-standing and stacked, flexible expansion

**High Safety LFP**  
Cell level monitoring and balancing

**Wide Compatibility**  
Matching with leading inverters

Technical Specifications

| Model                                | DL5.0C                                                                        |
|--------------------------------------|-------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                       |
| Nominal Battery Energy               | 5.12 kWh                                                                      |
| 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. Power Charge/Discharge Current  | Charge 75A    Discharge 100A                                                  |
| Peak Power Charge/Discharge Current  | 110A (15s)                                                                    |
| Depth of Discharge (DOD)             | 90%                                                                           |
| Net Weight                           | 54 kg                                                                         |
| Dimension[W*D*H]                     | 558*545*150 mm                                                                |
| Charging Temp. Range                 | 0~55°C/-20~55°C (with heating function)                                       |
| Discharging Temp. Range              | -20~55°C                                                                      |
| Communication                        | CAN/RS485/RS232                                                               |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                                                                  |
| Protection Level                     | IP20                                                                          |
| 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/CEI-021                                                |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis /Deye/SAJ/Voltronic/Growatt/APS etc. |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD

## PowerDepot H5B



PowerDepot H5B is a low-voltage product designed for residential application. The reliable lithium iron phosphate (LFP) technology ensures maximum safety and longer cycle life. It can be used flexibly for self-consumption and backup applications with a wide capacity range scalable from 5.12kWh to 25.6 kWh, to meet various energy storage needs.



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



**High protection level**  
Indoor & outdoor options



**Various Mounting Methods**  
Wall-mounted or floor-standing installations



**High Safety**  
LFP & smart BMS



**Wide Compatibility**  
Matching with leading inverters

### Technical Specifications

| Model                                 | PowerDepot H5B                                                                        |
|---------------------------------------|---------------------------------------------------------------------------------------|
| Battery Type                          | LiFePO4                                                                               |
| Nominal Battery Energy                | 5.12 kWh                                                                              |
| Operating voltage                     | 44.8 ~ 57.6V                                                                          |
| Nominal Voltage                       | 51.2V                                                                                 |
| Nominal Capacity                      | 100Ah                                                                                 |
| Max. output power                     | 3.84kW                                                                                |
| Recommended Charge & Discharge C Rate | 0.5C                                                                                  |
| Recommended Charge/Discharge Current  | 50A                                                                                   |
| Recommended Depth of Discharge (DOD)  | 90%                                                                                   |
| Net Weight                            | 55 kg                                                                                 |
| Dimension[W*D*H]                      | 574*228*600 mm                                                                        |
| Charging Temp. Range                  | 0 ~ 55°C/-20 ~ 55°C (with heating function)                                           |
| Discharging Temp. Range               | -20~55°C                                                                              |
| Communication                         | CAN/RS485/RS232                                                                       |
| Cycle Life <sup>[1]</sup>             | ≥6000 Cycles                                                                          |
| Protection Level                      | IP65                                                                                  |
| Expansion                             | Up to 5 units in parallel                                                             |
| Color                                 | White                                                                                 |
| Alarms                                | Overcharge/Over-discharge/Overcurrent/Overtemperature/Short Circuit                   |
| Monitoring & Protection               | Each system has smart BMS, breaker embedded in system                                 |
| Pros                                  | Can be used in both off-grid and hybrid setups, compact design, floor or wall-mounted |
| Certification & Safety Standard       | UN38.3/CE-EMC/IEC62619/IEC62040/IEC60730/GOST-R/UKCA/CEC Accredited                   |
| Compatible Inverters                  | SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Growatt/APS etc.          |

[1] Test conditions: 0.2C Charging & Discharging, @25°C, 90% DOD

## Powerbox Pro



The Powerbox Pro is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is especially designed with IP65 for more flexible and easier installation indoor or outdoor with wall-mounted and landed installation options. With up to 10 kWh for a single unit and max. 5 units in parallel with superior performance, it can meet the household electricity demand. Get ready with Powerbox Pro for super power storage for your life.



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



**High protection level**  
Indoor & outdoor options



**Various Mounting Methods**  
Wall-mounted or floor-standing installations



**High Safety LFP**  
LFP & smart BMS



**Wide Compatibility**  
Matching with leading inverters

### Technical Specifications

| Model                                 | Powerbox Pro                                                                          |
|---------------------------------------|---------------------------------------------------------------------------------------|
| Battery Type                          | LiFePO4                                                                               |
| 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                                                                               |
| Recommended Charge & Discharge C Rate | 0.5C                                                                                  |
| Recommended Charge/Discharge Current  | 100A                                                                                  |
| Recommended Depth of Discharge (DOD)  | 90%                                                                                   |
| Net Weight                            | 103 kg                                                                                |
| Dimension[W*D*H]                      | 555*210*928 mm                                                                        |
| Charging Temp. Range                  | 0~55°C                                                                                |
| Discharging Temp. Range               | -20~55°C                                                                              |
| Communication                         | CAN/RS485/RS232                                                                       |
| Cycle Life <sup>[1]</sup>             | ≥6000 Cycles                                                                          |
| Protection Level                      | IP65                                                                                  |
| Expansion                             | Up to 5 units in parallel                                                             |
| Color                                 | White                                                                                 |
| Alarms                                | Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit                    |
| Pros                                  | Can be used in both off-grid and hybrid setups, compact design, floor or wall-mounted |
| Certification & Safety Standard       | UN38.3/CE-EMC/IEC62619/IEC62040/IEC60730/UKCA/CEC Accredited                          |
| Compatible Inverters                  | SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Growatt/APS etc.          |

[1] Test conditions: 0.2C Charging & Discharging, @25°C, 90% DOD

# PowerBrick

NEW



The DYNESS battery PowerBrick module is widely used in energy storage sector. It adopts modular design and can be used for residential applications. The reliable LiFePO4 technology ensures maximum safety and a longer life cycle.



Compared to the previous generation ,the size is reduced by 24%, and the capacity increases by 40%



Continuous discharge current 200A, maximum continuous discharge power 10kW



Fire Protection System: Optional Aerosol fire extinguisher



Unlimited Cycles / 10 Years



Maximum can be expanded to 716.8kWh (no HUB)

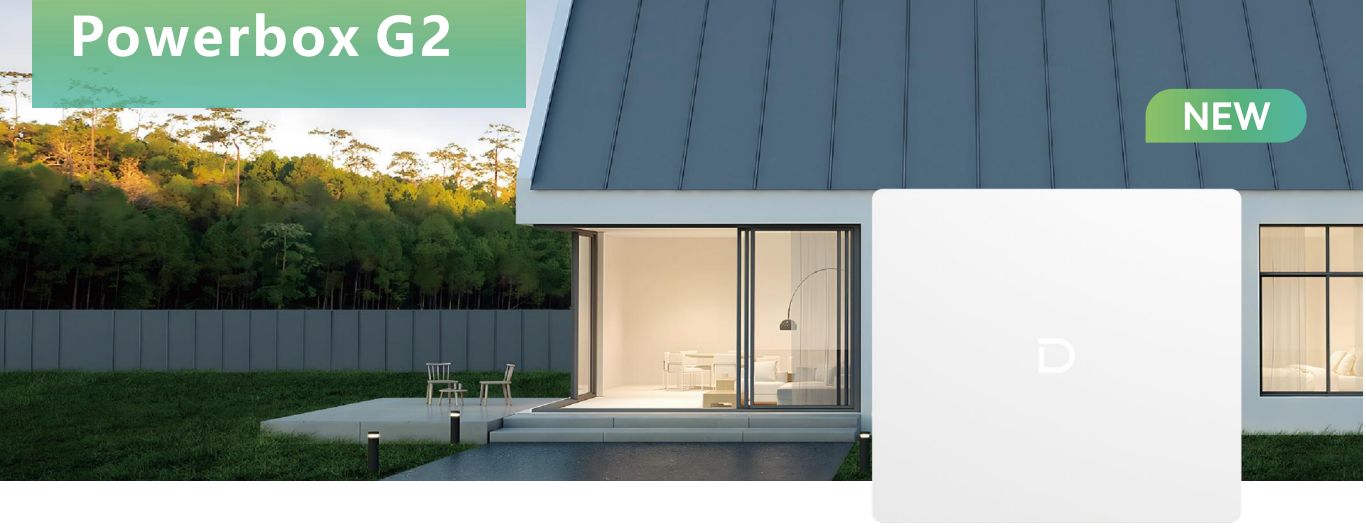
## Technical Specifications

| Model                                | PowerBrick                                                                    |
|--------------------------------------|-------------------------------------------------------------------------------|
| Battery Type                         | LiFePO4                                                                       |
| 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                                                                          |
| Depth of Discharge                   | 95%                                                                           |
| Communication                        | CAN/RS485                                                                     |
| Cycle Life <sup>[1]</sup>            | Unlimited cycles / 10 Years                                                   |
| Protection Level                     | IP20                                                                          |
| Net Weight                           | 114Kg                                                                         |
| Dimension[W*D*H]                     | 435*233*857mm (No wall -mounted bracket)                                      |
| 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               | Optional Aerosol fire extinguisher                                            |
| Certification & Safety Standard      | UN38.3; CE                                                                    |
| Compatible Inverters                 | SMA/Victron/Ingeteam/Delios/Goodwe/Solis /Deye/SAJ/Voltronic/Growatt/APS etc. |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 95% DOD

# Powerbox G2

NEW



The Powerbox G2 is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is especially designed with IP65 for more flexible and easier installation indoor or outdoor with wall-mounted and landed installation options. With up to 10 kWh for a single unit and max 40 units in parallel with superior performance, it can meet the household electricity demand. Get ready with Powerbox G2 for super power storage for your life.



Lighter and Smaller  
15% weight reduction, 30% volume reduction



Build in Active fire protection system



Unlimited Cycles / 10 Years warranty



-20 degrees low temperature charging function  
Battery low temperature heating function (optional)

## Technical Specifications

| Model                                    | Powerbox G2                                                                             |
|------------------------------------------|-----------------------------------------------------------------------------------------|
| Battery Type                             | LiFePO4                                                                                 |
| 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                               | 95kg without glass front panel; 98Kg with glass front panel                             |
| Dimension[W*D*H]                         | 710*165*640mm                                                                           |
| Charging Temp. Range                     | 0 ~ 55°C/-20 ~ 55°C (with heating function)                                             |
| Discharging Temp. Range                  | -20~55°C                                                                                |
| Communication                            | CAN/RS485                                                                               |
| Cycle Life <sup>[1]</sup>                | Unlimited cycles / 10 Years                                                             |
| Protection Level                         | IP65                                                                                    |
| Expansion                                | Up to 40 units in parallel                                                              |
| Color                                    | White                                                                                   |
| WIFI Module                              | Built-in WIFI module; APP, OTA function                                                 |
| Battery low temperature heating function | Optional                                                                                |
| Active fire protection system            | Built-in aerosol fire extinguisher                                                      |
| Certification & Safety Standard          | UN38.3、IEC62619、IEC62040、CEC、CE RED                                                     |
| Compatible Inverters                     | SMA/Victron/Ingeteam/Luxpower/Delios/Goodwe/Solis /Deye/SAJ /Voltronic/Growatt/APS etc. |

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 95% DOD

# Reliable High Voltage Home Energy Storage Systems

192V~576V

Tower T7/T10/T14/T17/T21

Tower Pro-TP7/TP11/TP15/TP19/TP23

7.1-23.04kWh/Set





The upgraded Tower Series is tailor-made for large residential application. Stackable design with self-adaptive modules, five energy choices of up to 21.31kWh with parallel connection available, advanced LiFePO4 technology, remote upgrade, high waterproof level and good cooling function... Whatever you need, Dyness Tower Series is there to meet your requirements.

APP Monitoring  
(build-in wifi)  
Real-time monitoring &  
Remote upgrade

Self-adaption  
Auto configuration

Easy Installation  
Stackable design,  
wireless connection

High Protection Level  
Indoor &  
outdoor installations

Wide Compatibility  
Matching with  
leading inverters

Technical Specifications

| Model                                                 | Tower T7                                                                                             | Tower T10   | Tower T14    | Tower T17    | Tower T21    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------|--------------|--------------|--------------|
| Battery Module Type                                   | LiFePO4                                                                                              | LiFePO4     | LiFePO4      | LiFePO4      | LiFePO4      |
| Battery Module Quantity                               | 2                                                                                                    | 3           | 4            | 5            | 6            |
| Nominal Energy                                        | 7.10 kWh                                                                                             | 10.66 kWh   | 14.21 kWh    | 17.76 kWh    | 21.31 kWh    |
| Usable Energy                                         | 6.745kWh                                                                                             | 10.127kWh   | 13.499kWh    | 16.872kWh    | 20.245kWh    |
| Operating Voltage                                     | 168 ~219V                                                                                            | 252 ~ 328V  | 336 ~ 438V   | 420 ~ 547V   | 504 ~ 657V   |
| Nominal Voltage                                       | 192V                                                                                                 | 288V        | 384V         | 480V         | 576V         |
| Nominal Capacity                                      | 37Ah                                                                                                 | 37Ah        | 37Ah         | 37Ah         | 37Ah         |
| Max. Continuous Charge/Discharge Power <sup>[1]</sup> | 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 kg                                                                                               | 146 kg      | 187 kg       | 228 kg       | 269 kg       |
| Charging Temperature Range                            | 0~50°C                                                                                               |             |              |              |              |
| Discharging Temperature Range                         | -10~50°C                                                                                             |             |              |              |              |
| Communication                                         | CAN/RS485                                                                                            |             |              |              |              |
| Cycle life <sup>[2]</sup>                             | ≥6000 Cycles                                                                                         |             |              |              |              |
| Protection Level                                      | IP54                                                                                                 |             |              |              |              |
| Color                                                 | White                                                                                                |             |              |              |              |
| Alarms                                                | Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit                                   |             |              |              |              |
| Pros                                                  | Can be used in both off-grid and hybrid setups, compact design, modular expansion                    |             |              |              |              |
| Battery Module Name                                   | HV9637                                                                                               |             |              |              |              |
| Expansion                                             | Max. 12 towers can be connected in parallel                                                          |             |              |              |              |
| Certification                                         | UN38.3/CE-EMC/IEC62040/IEC62619/IEC62477/IEC60730/IEC63056/UKCA/CEC Accredited/UL1973/VDE2510-50     |             |              |              |              |
| Compatible Inverters                                  | Kostal/Goodwe/Solis/Deye/Solplanet/Solinteg/Sunways/SAJ/Sinexcel/Hoymiles /Growatt/ATESS/Sineng etc. |             |              |              |              |



Dyness Tower Pro Series with IP55 protection level offers multiple energy options through an expandable modular design (2-6 modules combined), and the expandable parallel connection of up to 12 clusters allows for a maximum capacity of 276.48 kWh. The stackable auto-configuration modules make the system easier to install and maintain. Tower Pro also offers an optimized user experience with ultra-rapid charge (1C), LED display on the BDU, and remote upgrade and monitoring.

Equipped with  
aerosol fire  
extinguisher

1C rate  
charge/discharge

Easy to install:Stackable  
auto-configuration  
modules,  
wireless connection

High Protection  
Level:Indoor &  
outdoor installations

Heating  
function(Optional)

Technical Specifications

| Model                                                 | Tower Pro TP7                                                                                        | Tower Pro TP11  | Tower Pro TP15  | Tower Pro TP19  | Tower Pro TP23  |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Battery Module Type                                   | LiFePO4                                                                                              | LiFePO4         | LiFePO4         | LiFePO4         | LiFePO4         |
| Battery Module Quantity                               | 2                                                                                                    | 3               | 4               | 5               | 6               |
| Rated Energy                                          | 7.68 kWh                                                                                             | 11.52 kWh       | 15.36 kWh       | 19.2 kWh        | 23.04 kWh       |
| Usable Energy                                         | 7.296 kWh                                                                                            | 10.944 kWh      | 14.592 kWh      | 18.24 kWh       | 21.888 kWh      |
| Operating Voltage                                     | 168 ~219V                                                                                            | 252 ~ 328V      | 336 ~ 438V      | 420 ~ 547V      | 504 ~ 657V      |
| Nominal Voltage                                       | 192V                                                                                                 | 288V            | 384V            | 480V            | 576V            |
| Nominal Capacity                                      | 40Ah                                                                                                 | 40Ah            | 40Ah            | 40Ah            | 40Ah            |
| Max. Continuous Charge/Discharge Power <sup>[1]</sup> | 7.68 kW                                                                                              | 11.52 kW        | 15.36 kW        | 19.2 kW         | 23.04 kW        |
| Recommended Depth of Discharge (DOD)                  | 95%                                                                                                  | 95%             | 95%             | 95%             | 95%             |
| Dimensions [W*D*H]                                    | 587*310*788 mm                                                                                       | 587*310*1009 mm | 587*310*1230 mm | 587*310*1451 mm | 587*310*1672 mm |
| Net Weight [kg]                                       | 99.5 kg                                                                                              | 135 kg          | 170.5 kg        | 206 kg          | 241.5 kg        |
| Charging Temperature Range                            | 0~55°C/-20~55°C (with heating function)                                                              |                 |                 |                 |                 |
| Discharging Temperature Range                         | -20~55°C                                                                                             |                 |                 |                 |                 |
| Communication                                         | CAN/RS485/RS232                                                                                      |                 |                 |                 |                 |
| Cycle life <sup>[2]</sup>                             | ≥8000 Cycles                                                                                         |                 |                 |                 |                 |
| Protection Level                                      | IP55                                                                                                 |                 |                 |                 |                 |
| Warranty                                              | 10 /15 Years (Optional)                                                                              |                 |                 |                 |                 |
| Heating Function                                      | PTC Heating (Optional)                                                                               |                 |                 |                 |                 |
| Fire Protection Function                              | Aerosol fire extinguishing                                                                           |                 |                 |                 |                 |
| OTA Remote Upgrade Function                           | Equipped                                                                                             |                 |                 |                 |                 |
| Battery Module Name                                   | HV9640                                                                                               |                 |                 |                 |                 |
| Expansion                                             | Max. 12 Tower Pro can be connected in parallel                                                       |                 |                 |                 |                 |
| Certification                                         | UN38.3/VDE2510-50/IEC62619/IEC63056/IEC62477/IEC62040/CE-EMC/ROHS                                    |                 |                 |                 |                 |
| Compatible Inverters                                  | Kostal/Goodwe/Solis/Deye/Solplanet/Solinteg/Sunways/SAJ/Sinexcel/Hoymiles /Growatt/ATESS/Sineng etc. |                 |                 |                 |                 |

[1]Maximum Continuous Discharge/Charge Power when communicating with inverter is 0.6C [2]Test conditions: 0.2C Charging& Discharging. @25°C, 95% DOD

# Energy Guarantee For Outdoor Activities

## RV12100



Dyness RV12100 is tailor-made for outdoor travel. It adopts the most advanced LiFePO4 technology and built-in smart BMS, ensuring superior performance and long cycle life. Up to 16 modules in parallel, it offers you sufficient energy options to meet different requirements.



**High Safety**  
LFP & smart BMS



**Wide Application**  
Applied in kinds of RVs



**Compact Design**  
Light weight & small size



**Wide Temperature Range**  
Range of -20~55°C

### Technical Specifications

| Model                                | RV12100                          |
|--------------------------------------|----------------------------------|
| Battery Type                         | LiFePO4                          |
| Nominal Battery Energy               | 1.28 kWh                         |
| Nominal Capacity                     | 100Ah                            |
| Nominal Voltage                      | 12.8V                            |
| Operating Voltage                    | 11.2 ~ 14.6V                     |
| Recomended Charge & Discharge C Rate | 0.5C                             |
| Recommended Charge/Discharge Current | 50A                              |
| Max. Power Charge/Discharge Current  | 75A                              |
| Peak Power Charge/Discharge Current  | 100A (15S)                       |
| Depth of Discharge (DOD)             | 90%                              |
| Net Weight                           | 14 kg                            |
| Dimension[W*D*H]                     | 306*183*185 mm                   |
| Charging Temp. Range                 | 0~55°C                           |
| Discharging Temp. Range              | -20~55°C                         |
| Communication                        | CAN/RS485                        |
| Cycle Life <sup>[1]</sup>            | ≥6000 Cycles                     |
| Protection Level                     | IP20                             |
| Expansion                            | Up to 16 units in parallel       |
| Pros                                 | Used as electricity power for RV |
| Certification & Safety Standard      | UN38.3                           |
| Compatible Inverters                 | Steca/MUST/Victron               |

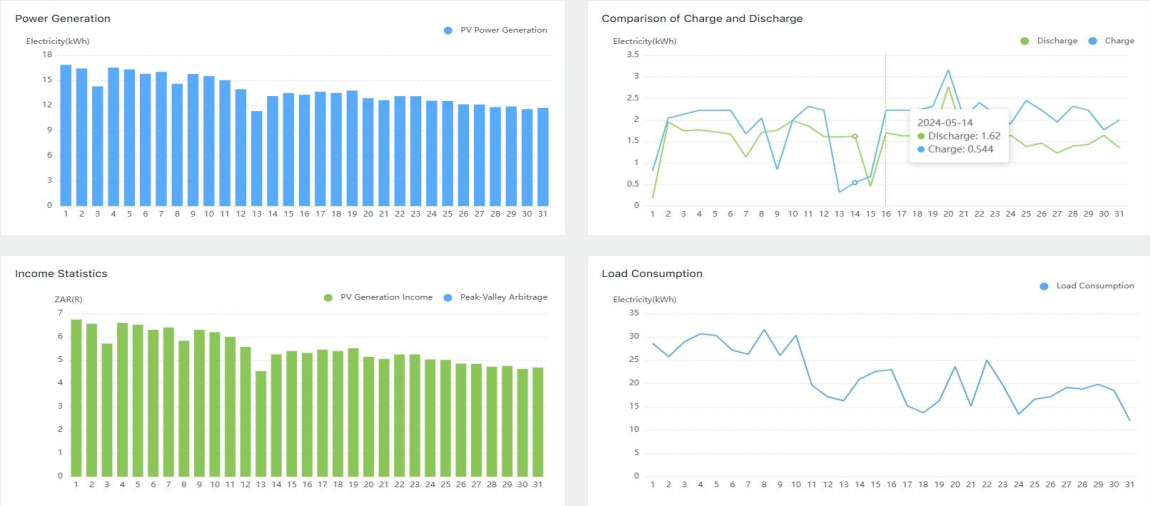
[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD

# Why Choose Dyness Energy System?

## Monitor Your System with Dyness Smart APP and Website

### Monitor Your System with Dyness APP

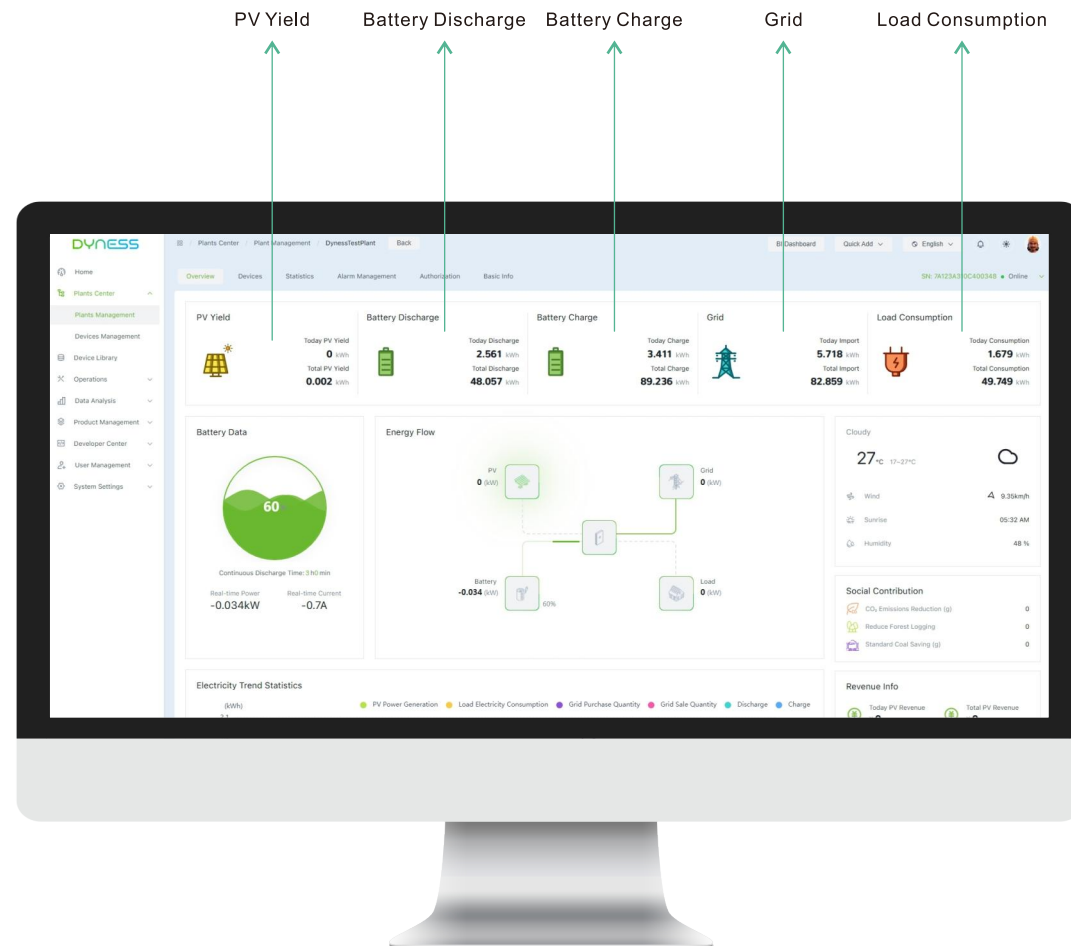
Download the Dyness Smart App in App Store or Google Play, User can monitor battery SOC, energy, etc. in real-time.



Plant Energy and Revenue Statistics

## Monitor Your System with Dyness Website

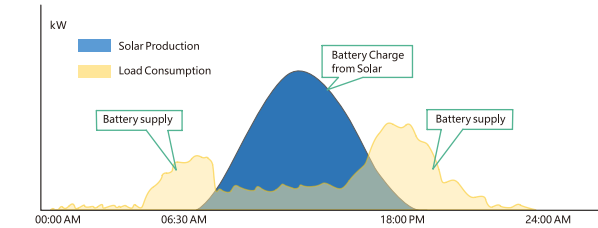
User can monitor battery SOC, energy, etc. in real-time via website as well.



## Enhance Self-Sufficiency, Reduce Electricity Bills

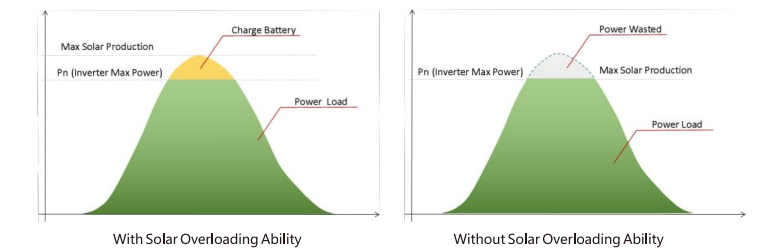
### Self-Consumption Mode

Dyness battery system integrates a smart self-control logic to maximize solar energy self-consumption, thus to reduce grid consumption. Solar powers house loads first, and keep its production ability to charge battery, which will be used to supply home when solar is weak.



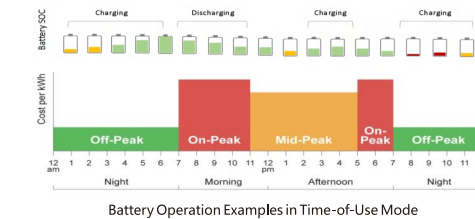
### Solar Maximization: Solar Overloading

Solar Overloading ability allows solar produce higher power than inverter capacity. Users could put much more panels on his roof to support load on AC side and charge battery on DC side together, thus to reduce the waste of exceeded solar capacity during a sunny day.



### Time-Of-Use Mode: Battery Makes Your Solar Worth More

Used in TOU mode, battery supports solar power be stored during Off-Peaks and discharge during On-Peaks, which makes solar power a higher value.



### Storage Contribution

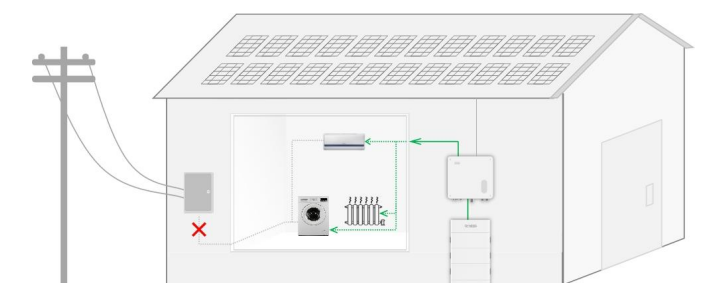
Battery is an essential path to reduce home electricity bills by reducing power consumption from utility, as well to provide a cheaper power source during On-Peaks.



## Protections From Power Shortage or Blackouts

Dyness battery system store solar energy, to provide power supply during blackouts. Fit for specific house consumption demand start from 2.4kWh for low voltage battery system and 7kWh to 92.16kWh for high voltage battery systems.

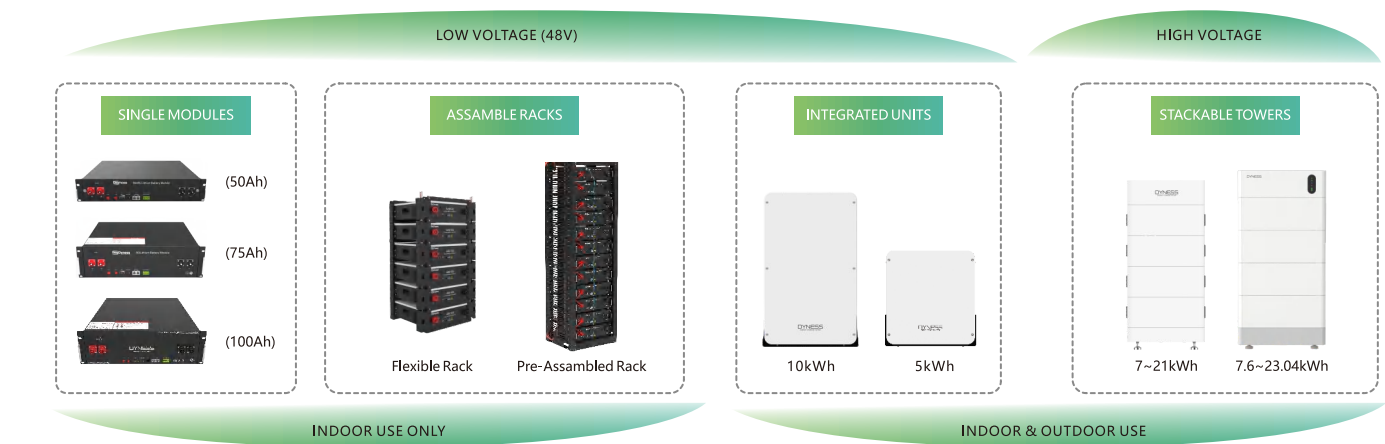
Dyness batteries are designed for power backup operations and off-grid solutions.



# Dyness Solution Features

## Various Options

Dyness solutions covers various scenarios, including indoor & outdoor use, low voltage & high voltage packs, and various capacity options from 2.4kWh to more than 30kWh etc., to diversify battery pack design. Dyness has the ambition to be able to provide storage solutions for all houses.



## Flexible Energy Extension

Dyness battery modules are designed to allow users extend your system capacity as house power demand might increase, or as you plan to use more clean energy by increase house solar self-consumption rate. You will have easy access to the details of energy extension in user manual or contacting Dyness.

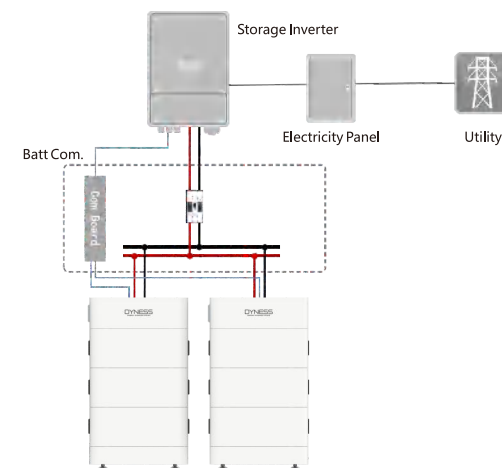


## System Paralleling

Dyness DC BUS Box is designed for battery system paralleling, by which the battery capacity could be extended further.

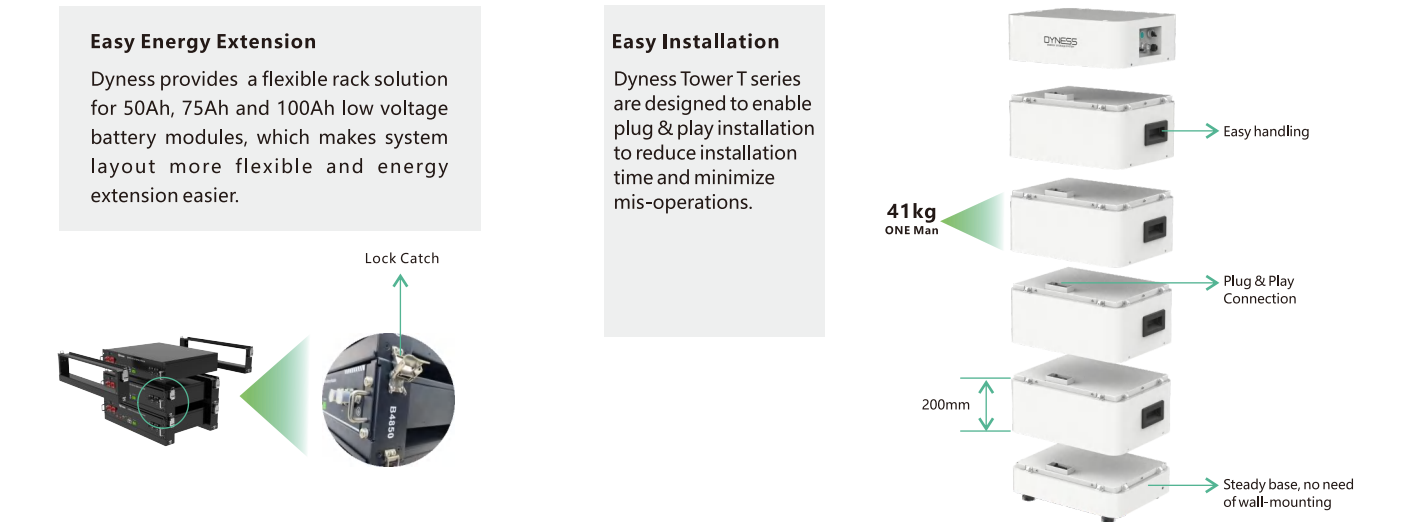
DC BUS Box are designed for different battery modules:

| Battery                         | DC BUS Box | Max Battery Units |
|---------------------------------|------------|-------------------|
| TOWER / TOWER Pro               | DCB-TW     | 12                |
| HV Rack                         | DCB-HV     | 12 Racks          |
| LV Rack                         | Customized | <40 Modules       |
| Power Box Pro & Power Depot H5B | Customized | 5                 |



# Reduce Soft Cost - Installer Friendly

Installation contributes to a big part of system soft cost. An easy installation design helps much to reduce whole system costs. Dyness battery is designed to reduce installation & commissioning time, and prevent fault installations as well.



# Considerate Design - User Friendly

