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# RESIDENTIAL

## ENERGY STORAGE SOLUTIONS

[www.dyness-tech.com](http://www.dyness-tech.com)

DYNESS is a high-tech company focusing on the research and manufacturing of LFP (LiFePO<sub>4</sub>) battery energy storage solution.

As the core competence, DYNESS holds a team of industrial leaders and senior doctoral experts with vast experience in development, manufacturing, integration and management. So the company has great capability in independent material research, development and product development, in order to create outstanding power battery products.

Currently DYNESS has two R&D centers and two production factories in CHINA. With strong R&D capability and production capacity, DYNESS has developed outstanding products in multiple energy storage fields and obtained a number of patents. All products of the company are produced in strict accordance with international standards, and have obtained CE, IEC, EMC, ROHS, UL and other certificates.

At present, DYNESS leading energy solutions has achieved over 60000+ projects or shipments in Europe, Oceania, Africa and Asia, supporting the users to realize energy self-sufficiency and ultimately energy independence, and the world's cleaner energy goals and alleviating stress on the grid notably.

DYNESS aims to create a green energy-saving model for the energy storage industry and create a green and healthy life for humanity.



**100+**

R&D Engineers

**80+**

Patents

**70+**

Global Footprints

**2**

Production Bases

**60000+**

Served Families

**2017**

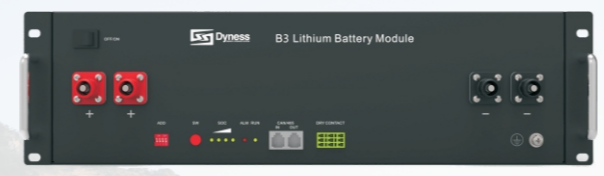
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# PRODUCTS

## 01 Battery Module 50-100Ah



B4850



B3



B51100



A48100

## 02 Battery System



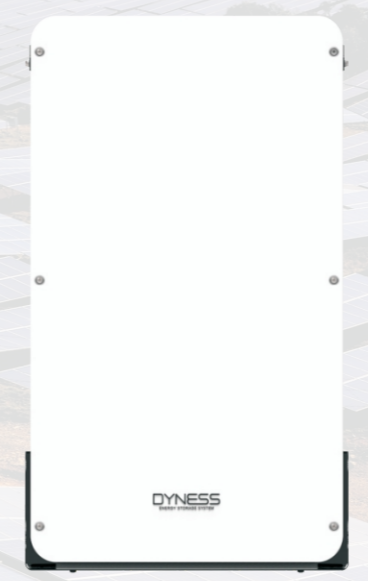
PowerDepot H5



PowerDepot H5B



Powerbox



Powerbox Pro



Powercube



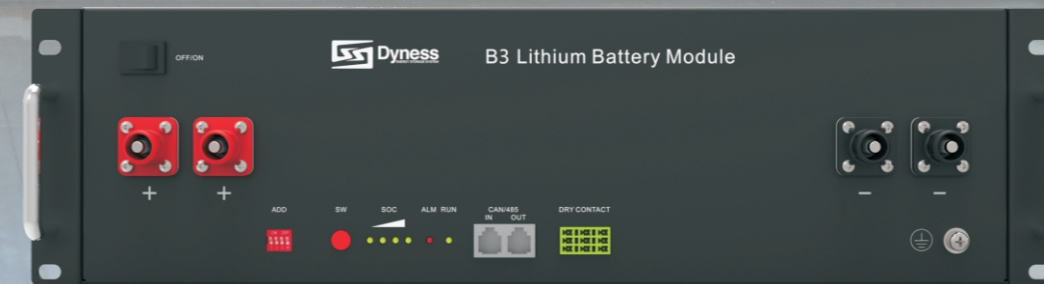
HV Tower

48V~51.2V

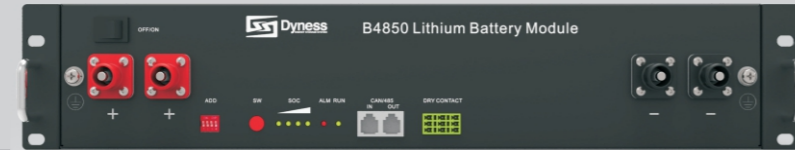
B4850/B3/B51100/A48100

# Modular Battery Series

2.4-5.12kWh



## Dyness B4850



**Modular Design**  
Flexible expansion



**19" inch**  
Easy installation & maintenance



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



**Wide Compatibility**  
Matching with leading inverter brands

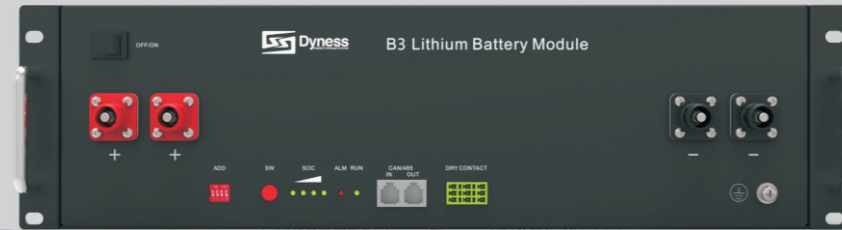


## Technical Parameters

| Model                                | B4850   |
|--------------------------------------|---|
| Battery Type                         | LiFePO4   |
| Nominal Battery Energy               | 2.4kWh  |
| Nominal Capacity                     | 50Ah  |
| Nominal Voltage                      | 48V   |
| Charging Cut-off vol.                | 54V   |
| Discharging End-of vol.              | 42V   |
| Recommend C Rate                     | 0.5C  |
| Recommended Charge/Discharge Current | 25A   |
| Max. Power Charge/Discharge Current  | 50A   |
| Peak Power Charge/Discharge Current  | 55 (1s)   |
| Net Weight                           | 22kg  |
| Dimension[W*D*H]                     | 480*360*90mm  |
| Charging Temp. Range                 | 0-50°C  |
| Discharging Temp. Range              | -20-50°C  |
| Communication                        | CAN / RS485   |
| Warranty                             | 10 Years  |
| Calendar Life <sup>[1]</sup>         | >6000 Cycles  |
| Protection Level                     | IP20  |
| Scalability                          | Up to 40 units in parallel  |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design              |
| Compatible Inverters                 | Victron/SMA/Goodwe/ Imeon /Solis/SAJ / Growatt/Luxpower/Voltronic/Deye etc. |
| Certification & Safety Standard      | TUV/CE/EN62619/IEC62040/UN38.3/ CEC Accredited/UL1973/CEI-021               |

[1] Test conditions: 0.1C Charging/Discharging, @25°C, 80% DOD

## Dyness B3



**Modular Design**  
Flexible expansion



**19" inch**  
Easy installation & maintenance



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



**Wide Compatibility**  
Matching with leading inverter brands



## Technical Parameters

| Model                                | B3  |
|--------------------------------------|---|
| Battery Type                         | LiFePO4   |
| Nominal Battery Energy               | 3.6kWh  |
| Nominal Capacity                     | 75Ah  |
| Nominal Voltage                      | 48V   |
| Charging Cut-off vol.                | 54V   |
| Discharging End-of vol.              | 42V   |
| Recommend C Rate                     | 0.5C  |
| Recommended Charge/Discharge Current | 37.5A   |
| Max. Power Charge/Discharge Current  | 45A   |
| Peak Power Charge/Discharge Current  | 55A (1s)  |
| Net Weight                           | 30kg  |
| Dimension[W*D*H]                     | 480*360*130mm   |
| Charging Temp. Range                 | 0-50°C  |
| Discharging Temp. Range              | -20-50°C  |
| Communication                        | CAN / RS485   |
| Warranty                             | 10 Years  |
| Warranty Document Supplied           | Yes   |
| Calendar Life <sup>[1]</sup>         | >6000 Cycles  |
| Protection Level                     | IP20  |
| Scalability                          | Up to 40 units in parallel  |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design              |
| Compatible Inverters                 | Victron/SMA/Goodwe/ Imeon /Solis/SAJ / Growatt/Luxpower/Voltronic/Deye etc. |
| Certification & Safety Standard      | TUV/CE/IEC62619/IEC62040/UN38.3   |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD

## Dyness B51100



**APP Monitoring**  
Remote upgrade available



**Larger capacity base**  
5.12kWh per unit



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



**Wide Compatibility**  
Matching with leading inverter brands



## Technical Parameters

| Model                                | B51100  |
|--------------------------------------|---|
| Battery Type                         | LiFePO4   |
| Nominal Battery Energy               | 5.12 kWh  |
| Nominal Capacity                     | 100 Ah  |
| Nominal Voltage                      | 51.2 V  |
| Charging Cut-off vol.                | 57.6V   |
| Discharging End-of vol.              | 44.8V   |
| Recommended C Rate                   | 0.5C  |
| Recommended Charge/Discharge Current | 50A   |
| Max. Power Charge/Discharge Current  | 80A   |
| Peak Power Charge/Discharge Current  | 100A(15s)   |
| Weight                               | 44kg  |
| Max.Dimension[W*D*H]                 | 481*535*140mm   |
| Charging Temp. Range                 | 0-50°C  |
| Discharging Temp.Range               | -20-50°C  |
| Communication                        | CAN / RS485   |
| Warranty                             | 10 Years  |
| Warranty Document Supplied           | Yes   |
| Calendar Life <sup>[1]</sup>         | >6000 Cycles  |
| Protection Level                     | IP20  |
| Scalability                          | Up to 40 units in parallel  |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design          |
| Compatible Inverters                 | Victron/SMA/Goodwe/Imeon/Solis/SAJ/Growatt/Luxpower/Voltronic/Deye etc. |
| Certification & Safety Standard      | TUV/CE/IEC62619/UN38.3  |

[1] Test conditions: 0.1C Charging/Discharging, @25°C, 80% DOD

## Dyness A48100



Larger capacity base  
4.8kWh per unit



Various Installation Options  
Floor-standing, wall-mounted and stack



Expandable  
Up to 40 units in parallel



High Safety  
Cell level monitoring and balancing



Wide Compatibility  
Matching with leading inverter brands



## Technical Parameters

| Model                                | A48100  |
|--------------------------------------|---|
| Battery Type                         | LiFePO4   |
| Nominal Battery Energy               | 4.8 kWh   |
| Battery Capacity                     | 100 Ah  |
| Nominal Voltage                      | 48 V  |
| Charging Cut-off vol.                | 54V   |
| Discharging End-of vol.              | 42V   |
| Recommended C Rate                   | 0.5C  |
| Recommended Charge/Discharge Current | 50A   |
| Max.Charge/Discharge Current         | 75A   |
| Peak Power Charge/Discharge Current  | 100A(15s)   |
| Net Weight                           | 45kg  |
| Dimension[W*D*H]                     | 504*597*155mm   |
| Charging Temp. Range                 | 0-50°C  |
| Discharging Temp. Range              | -20-50°C  |
| Communication                        | CAN / RS485   |
| Warranty                             | 5 Years   |
| Warranty Document Supplied           | Yes   |
| Calendar Life <sup>[1]</sup>         | >6000 Cycles  |
| Protection Level                     | IP20  |
| Scalability                          | Up to 40 units in parallel  |
| Pros                                 | Can be used in both off-grid and hybrid setups, compact design              |
| Compatible Inverters                 | Victron/SMA/Goodwe/ Imeon /Solis/SAJ / Growatt/Luxpower/Voltronic/Deye etc. |
| Certification & Safety Standard      | UN38.3  |

[1]Test conditions:0.1C Charging/Discharging,@25°C,80% DOD

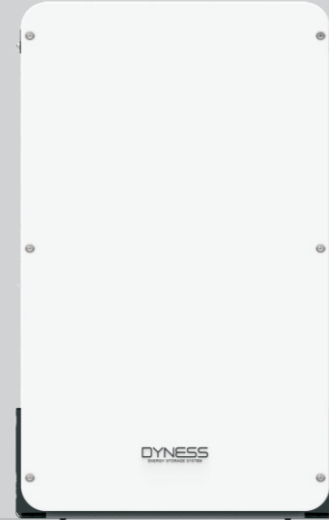


Powerbox F-2.5/5.0/7.5/10.0 Series  
Powerbox Pro  
Powerdepot H-2.5/5 Series  
Powerdepot H5B  
Powercube B4850-5/6/7/8/9 Modules  
Powercube B3-5/6/7/8/9 Modules

# LV Battery Solution

2.4~144kWh

## Dyness Powerbox



**IP65**  
Floor-standing outdoor solution



**Easy to Install**  
Plug and play



**Tailor-made Cabinet**  
Suitable for multi-module installation



**High Safety**  
LFP & smart BMS



**Wide Compatibility**  
Matching with leading inverter brands

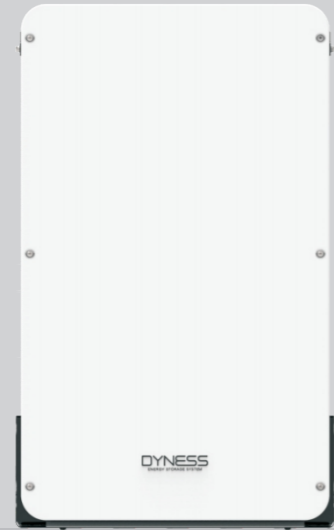


## Technical Parameters

| Model                           | Powerbox  |                    |                    |                     |
|---------------------------------|---|--------------------|--------------------|---------------------|
| Battery Type                    | LiFePO4   |                    |                    |                     |
| System Model                    | F-2.5<br>1 Module   | F-5.0<br>2 Modules | F-7.5<br>3 Modules | F-10.0<br>4 Modules |
| Battery Capacity                | 50Ah  | 100Ah              | 150Ah              | 200Ah               |
| Nominal Battery Energy          | 2.4kWh  | 4.8kWh             | 7.2kWh             | 9.6kWh              |
| Max Output Power                | 2.4kW   | 4.8kW              | 4.8kW              | 4.8kW               |
| Net Weight                      | 47kg  | 69kg               | 91kg               | 113kg               |
| Nominal Voltage                 | 48V   |                    |                    |                     |
| Dimension[W*D*H]                | 555*210*928mm   |                    |                    |                     |
| Working Voltage                 | 42~54V  |                    |                    |                     |
| Charging Temp. Range            | -20-50°C  |                    |                    |                     |
| Discharging Temp. Range         | -20-50°C  |                    |                    |                     |
| Communication                   | CAN / RS485   |                    |                    |                     |
| Warranty                        | 10 Years  |                    |                    |                     |
| Warranty Document Supplied      | Yes   |                    |                    |                     |
| Calendar Life <sup>[1]</sup>    | >6000 Cycles  |                    |                    |                     |
| Protection Level                | IP65  |                    |                    |                     |
| Scalability                     | Up to 4 units in parallel   |                    |                    |                     |
| Color                           | White   |                    |                    |                     |
| Alarms                          | Overcharge/Overdischarge/Overcurrent/<br>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, modular expansion |                    |                    |                     |
| Compatible Inverters            | Victron/SMA/Goodwe/ Imeon /Solis/SAJ / Growatt/Luxpower/Voltronic/Deye etc.       |                    |                    |                     |
| Certification & Safety Standard | TUV/CE/EN62619/IEC62040/UN38.3/<br>CEC Accredited/UL1973/CEI-021                  |                    |                    |                     |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD

## Dyness Powerbox Pro



**APP Monitoring**  
Remote upgrade available



**Easy to Install**  
Plug and play



**Tailor-made Cabinet**  
Suitable for  
multi-module installation



**High Safety**  
LFP & smart BMS



**Wide Compatibility**  
Matching with leading  
inverter brands



## Technical Parameters

| Model                           | Powerbox Pro   |
|---------------------------------|--|
| Battery Type                    | LiFePO4  |
| Battery Capacity                | 200Ah  |
| Nominal Battery Energy          | 10.24kWh   |
| Recommend Output Power          | 5.12kW   |
| Max Output Power                | 7.68kW   |
| Net Weight                      | 115kg  |
| Nominal Voltage                 | 51.2V  |
| Dimension[W*D*H]                | 555*210*1020mm   |
| Working Voltage                 | 44.8~58.4V   |
| Charging Temp. Range            | 0-50°C   |
| Discharging Temp. Range         | -20-50°C   |
| Communication                   | CAN / RS485/RS232  |
| Warranty                        | 10 Years   |
| Warranty Document Supplied      | Yes  |
| Calendar Life <sup>[1]</sup>    | >6000 Cycles   |
| Protection Level                | IP65   |
| Scalability                     | Up to 4 units in parallel  |
| Color                           | White  |
| Alarms                          | Overcharge/Overdischarge/Overcurrent/<br>Overtemperature/Short Circuit               |
| Monitoring & Protection         | Each system has smart BMS, breaker<br>embedded in system                             |
| Pros                            | Can be used in both off-grid and hybrid<br>setups, compact design, modular expansion |
| Compatible Inverters            | Victron/SMA/Goodwe/ Imeon /Solis/SAJ /<br>Growatt/Luxpower/Voltronic/Deye etc.       |
| Certification & Safety Standard | TUV/CE/UN38.3 CEI-021 Undergoing   |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD

## Dyness PowerDepot



**IP65**  
High protection level



**More Flexible Install**  
Wall-mounted or floor-standing outdoor solution



**Expandable**  
Capacity up to 19.2kWh



**High Safety**  
LFP & smart BMS



**Wide Compatibility**  
Matching with leading inverter brands



## Technical Parameters

| Model                           | PowerDepot   |        |
|---------------------------------|--|--------|
| Battery Type                    | LiFePO4  |        |
| System Model                    | H2.5   | H5     |
| Battery Capacity                | 50Ah   | 100Ah  |
| Nominal Battery Energy          | 2.4kWh   | 4.8kWh |
| Max Output Power                | 2.4kW  | 4.8kW  |
| Net Weight                      | 44kg   | 65kg   |
| Nominal Voltage                 | 48V  |        |
| Dimension[W*D*H]                | 574*228*600mm  |        |
| Working Voltage                 | 42~54V   |        |
| Charging Temp. Range            | -20-50°C   |        |
| Discharging Temp. Range         | -20-50°C   |        |
| Communication                   | CAN / RS485 / DRY CONTACT  |        |
| Warranty                        | 10 Years   |        |
| Warranty Document Supplied      | Yes  |        |
| Calendar Life <sup>[1]</sup>    | >6000 Cycles   |        |
| Protection Level                | IP65   |        |
| Scalability                     | Up to 4 units in parallel  |        |
| Color                           | White  |        |
| Alarms                          | Overcharge/Overdischarge/Overcurrent/<br>Overtemperature/Short Circuit               |        |
| Monitoring & Protection         | Each system has smart BMS, breaker<br>embedded in system                             |        |
| Pros                            | Can be used in both off-grid and hybrid<br>setups, compact design, modular expansion |        |
| Compatible Inverters            | Victron/SMA/Goodwe/ Imeon /Solis/SAJ /<br>Growatt/Luxpower/Voltronic/Deye etc.       |        |
| Certification & Safety Standard | TUV/CE/UN38.3/ CEI-021   |        |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD

## Dyness PowerDepot H5B



**APP Monitoring**  
Remote upgrade available



**IP65**  
High protection level



**More Flexible Install**  
Wall-mounted or floor-standing outdoor solution



**High Safety**  
LFP & smart BMS



**Wide Compatibility**  
Matching with leading inverter brands



## Technical Parameters

| Model                           | PowerDepot H5B  |
|---------------------------------|---|
| Battery Type                    | LiFePO4   |
| Battery Capacity                | 100 Ah  |
| Nominal Battery Energy          | 5.12kWh   |
| Nominal Voltage                 | 51.2V   |
| Max Output Power                | 3.84kW  |
| Net Weight                      | 65kg  |
| Dimension[W*D*H]                | 574*228*600mm   |
| Working Voltage                 | 44.8~57.6V  |
| Charging Temp. Range            | -20-50°C  |
| Discharging Temp. Range         | -20-50°C  |
| Communication                   | CAN / RS485 / RS232   |
| Warranty                        | 10 Years  |
| Warranty Document Supplied      | Yes   |
| Calendar Life <sup>[1]</sup>    | >6000 Cycles  |
| Protection Level                | IP65  |
| Scalability                     | Up to 4 units in parallel   |
| Color                           | White   |
| Alarms                          | Overcharge/Overdischarge/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 mount |
| Compatible Inverters            | Victron/SMA/Goodwe/ Imeon /Solis/SAJ / Growatt/Luxpower/Voltronic/Deye etc.         |
| Certification & Safety Standard | CE/UN38.3   |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD

## Dyness Powercube



**IP65**  
Floor-standing outdoor solution



**Larger Capacity**  
More energy for long time use



**Tailor-made Cabinet**  
Suitable for Multit-module install



**High Safety LFP**  
LFP & smart BMS



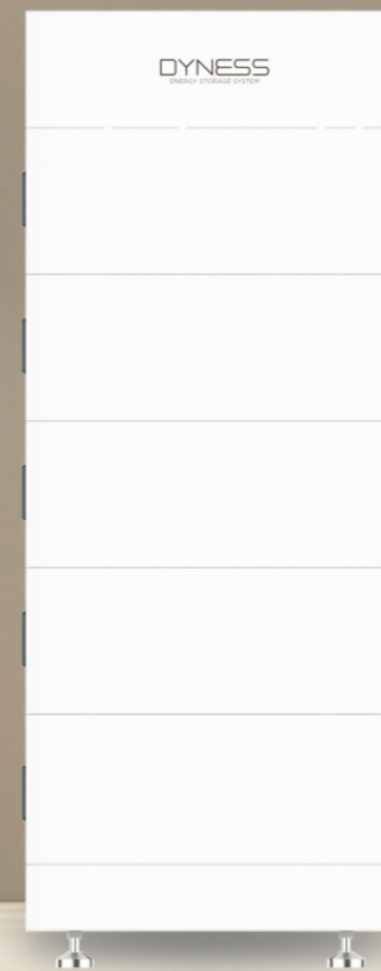
**Wide Compatibility**  
Matching with leading inverter brands



## Technical Parameters

| Model                           | Powercube B4850   |          |          |          |          | Powercube B3                      |          |          |          |          |
|---------------------------------|---|----------|----------|----------|----------|-----------------------------------|----------|----------|----------|----------|
| Battery Type                    | LiFePO4   |          |          |          |          | LiFePO4                           |          |          |          |          |
| Number Module                   | 5Modules  | 6Modules | 7Modules | 8Modules | 9Modules | 5Modules                          | 6Modules | 7Modules | 8Modules | 9Modules |
| Battery Capacity                | 250Ah   | 300Ah    | 350Ah    | 400Ah    | 450Ah    | 375Ah                             | 450Ah    | 525Ah    | 600Ah    | 675Ah    |
| Nominal Battery Energy          | 12kWh   | 14.4kWh  | 16.8kWh  | 19.2kWh  | 21.6kWh  | 18kWh                             | 21.6kWh  | 25.2kWh  | 28.8kWh  | 32.4kWh  |
| Nominal Voltage                 | 48V   |          |          |          |          |                                   |          |          |          |          |
| Working Voltage                 | 42~54V  |          |          |          |          |                                   |          |          |          |          |
| Charging Temp. Range            | -20-50°C  |          |          |          |          |                                   |          |          |          |          |
| Discharging Temp. Range         | -20-50°C  |          |          |          |          |                                   |          |          |          |          |
| Communication                   | CAN / RS485   |          |          |          |          |                                   |          |          |          |          |
| Warranty                        | 10 Years  |          |          |          |          |                                   |          |          |          |          |
| Warranty Document Supplied      | Yes   |          |          |          |          |                                   |          |          |          |          |
| Calendar Life <sup>[1]</sup>    | >6000 Cycles  |          |          |          |          |                                   |          |          |          |          |
| Protection Level                | IP65  |          |          |          |          |                                   |          |          |          |          |
| Color                           | White   |          |          |          |          |                                   |          |          |          |          |
| Alarms                          | Overcharge/Overdischarge/Overcurrent/ Overtemperature/Short Circuit               |          |          |          |          |                                   |          |          |          |          |
| Monitoring & Protection         | Each module has smart BMS   |          |          |          |          |                                   |          |          |          |          |
| Pros                            | Can be used in both off-grid and hybrid setups, compact design, modular expansion |          |          |          |          |                                   |          |          |          |          |
| Compatible Inverters            | Victron/SMA/Goodwe/ Imeon /Solis/SAJ /Growatt/Luxpower/Voltronic/Deye etc.        |          |          |          |          |                                   |          |          |          |          |
| Scalability                     | Cabinet contains 16 units maximum   |          |          |          |          | Cabinet contains 12 units maximum |          |          |          |          |
| Certification & Safety Standard | TUV/CE/EN62619/IEC62040/UN38.3/ CEC Accredited/UL1973/CEI-021                     |          |          |          |          | TUV/CE/IEC62619/IEC62040/UN38.3   |          |          |          |          |

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD



Tower T-7/T10/T14/T17/T21

# HV Battery Solution

192~576V



## Dyness Tower



**IP54**  
Floor-standing  
outdoor solution



**High Voltage**  
High system efficiency



**Self-adoption**  
Automatic configuration



**Pile Up Design**  
Wireless connection  
Easy to install



**Wide Compatibility**  
Matching with leading  
inverter brands



## Technical Parameters

| Model   | Tower T7  | Tower T10     | Tower T14      | Tower T17      | Tower T21      |
|---|---|---------------|----------------|----------------|----------------|
| Nominal Battery Energy                            | 7.10kWh   | 10.66kWh      | 14.20kWh       | 17.76kWh       | 21.31kWh       |
| Nominal Capacity                                  | 37Ah  | 37Ah          | 37Ah           | 37Ah           | 37Ah           |
| Nominal Voltage                                   | 192V  | 288V          | 384V           | 480V           | 576V           |
| Maximum Continuous Discharge Power <sup>[2]</sup> | 4.26kW  | 6.39kW        | 8.52kW         | 10.65kW        | 12.78kW        |
| Maximum Continuous Charge Power <sup>[2]</sup>    | 4.26kW  | 6.39kW        | 8.52kW         | 10.65kW        | 12.78kW        |
| Dimension [W*D*H]                                 | 504*380*700mm   | 504*380*900mm | 504*380*1100mm | 504*380*1300mm | 504*380*1500mm |
| Net Weight  | 105kg   | 146kg         | 187kg          | 228kg          | 269kg          |
| Module Number                                     | 2   | 3             | 4              | 5              | 6              |
| Charging Temp. Range                              | 0~50°C  |               |                |                |                |
| Discharging Temp. Range                           | -10-50°C  |               |                |                |                |
| Communication                                     | CAN   |               |                |                |                |
| Warranty  | 10 Years  |               |                |                |                |
| Warranty Document Supplied                        | Yes   |               |                |                |                |
| Calendar Life <sup>[1]</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 Type                               | HV9637  |               |                |                |                |
| Module Connection Method                          | Series  |               |                |                |                |
| Compatible Inverters                              | Goodwe/Solis/Hoymiles/Sermatec/ATESS/Luxpower, more brands will be announced      |               |                |                |                |
| Certification                                     | TUV/CE/IEC62619/ IEC 62040/UN38.3/CEC Accredited/UL 1973                          |               |                |                |                |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD

[2]Maximum Continuous Discharge/Charge Power when communicate with inverter is 0.6C