Dyness
ENERGY STORAGE SYSTEM

Discover Your Nature

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Dyness
ENERGY STORAGE SYSTEM

Dyness

Home Energy Storage Solutions



Discover Your Nature

About Dyness

Dyness is located in China, owning three manufacturing centers in Taizhou and Suzhou. We have 550+ employees, and a R&D team of 150+ people with more than 10 years experience in this industry, who has deep understanding for energy storage and global carbon neutrality.

Dyness owns more than 90 patents and many international certifications such as TUV, UL, CE, JET, CEC etc. Our products have been delivered to 100+ countries including Europe, America, Australia, Africa etc, serving more than 200,000 households worldwide.

Powered by cutting-edge technology and innovation, Dyness is committed to providing customers with intelligent energy solutions, maximizing the use of green energy and making positive contributions to global carbon neutrality.

100+ **Global footprints**

90+ **Patents**

150+ **R&D team**

3 **Production Bases**

Global Footprint



Main Shipping Areas
Branches

5
Global Branches

100+
Countries Reached

200,000+
Families Served

Top Brand PV
By EUPD

Dyness Home Energy Storage Solution

1 **DYNESS 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.



Products Overview

Low Voltage Battery



B4850
48V / 50Ah



B3
48V / 75Ah



DL3.6
48V / 75Ah



DL5.0
51.2V / 100Ah



B25100
25.6V / 100Ah



A48100
48V / 100Ah



DL5.0C
51.2V/100Ah

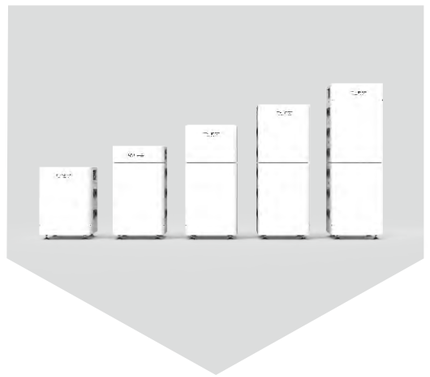


PowerDepot H5B
51.2V / 100Ah

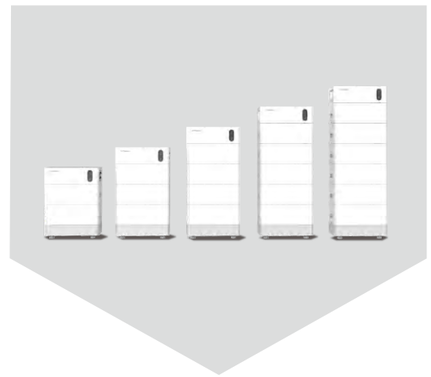


Powerbox Pro
51.2V/200Ah

High Voltage Battery



Tower T Series
192~576V / 37Ah



Tower Pro TP Series
192~576V / 40Ah

RV series



RV12100
12.8V / 100Ah



VB4850
48V/50Ah



VB48100
48V / 100Ah

Reliable Low Voltage Home Energy Storage Systems

25.6~51.2V

B4850/B3/DL3.6/A48100/DL5.0/DL5.0C/B25100

PowerDepot H5B/Powerbox Pro

2.56~10.24kWh/unit

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
Recommended 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)	85%
Net Weight	22 kg
Dimension[W*D*H]	480*405*90 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485
Cycle Life[1]	≥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/Sungrow etc.

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





B3

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
Recommended C Rate	0.5C
Recommended Charge/Discharge Current	37.5A
Max. Power Charge/Discharge Current	45A
Peak Power Charge/Discharge Current	55A (1s)
Depth of Discharge (DOD)	85%
Net Weight	31 kg
Dimension[W*D*H]	480*360*130 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485
Cycle Life[1]	≥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/Sungrow etc.

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

DL3.6

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.





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
Recommended 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)	85%
Net Weight	32.5 kg
Dimension[W*D*H]	480*405*132 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485/RS232
Cycle Life[1]	≥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/Sungrow etc.

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





DL5.0

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

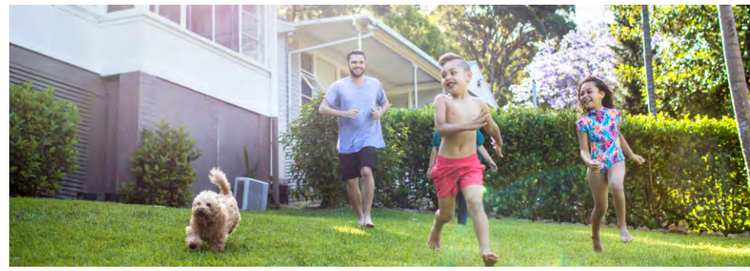
Model	DL5.0
Battery Type	LiFePO4
Nominal Battery Energy	5.12 kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8 ~ 57.6V
Recommended C Rate	0.5C
Recommended Charge/Discharge Current	50A
Max. Power Charge/Discharge Current	75A
Peak Power Charge/Discharge Current	100A (15s)
Depth of Discharge (DOD)	85%
Net Weight	44 kg
Dimension[W*D*H]	481*535*140 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485/RS232
Cycle Life[1]	≥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/Sungrow etc.

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

B25100

Dyness B25100 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
Stackable with flexible brackets

High Safety LFP
Cell level monitoring and balancing

Wide Compatibility
Compatible with leading off-grid inverters

Technical Specifications

Model	B25100
Battery Type	LiFePO4
Nominal Battery Energy	2.56 kWh
Nominal Capacity	100Ah
Nominal Voltage	25.6V
Operating Voltage	22.4 ~ 29.2V
Recommended 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)	85%
Net Weight	21.7 kg
Dimension [W*D*H]	481*360*130 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485
Cycle Life[1]	≥6000 Cycles
Protection Level	IP20
Expansion	Up to 16 units in parallel
Pros	Can be used as backup power for off-grid as well as lead-acid alternative
Certification & Safety Standard	UN38.3/CE-EMC
Compatible Inverters	Steca/MUST/Victron/Sorotec/Growatt

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



A48100

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
Recommended 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)	85%
Net Weight	45 kg
Dimension[W*D*H]	504*597*155 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485/RS232
Cycle Life[1]	≥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/Sungrow etc.

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

DL5.0C

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

Module Design
Flexible expansion

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

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
Recommended 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)	85%
Net Weight	54 kg
Dimension[W*D*H]	558*545*150 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485/RS232
Cycle Life[1]	≥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/Sungrow etc.

[1]Test conditions: 0.2C Charging/Discharging, @25℃, 80% 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 C Rate	0.5C
Recommended Charge/Discharge Current	50A
Recommended Depth of Discharge (DOD)	85%
Net Weight	55 kg
Dimension[W*D*H]	574*228*600 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485/RS232
Cycle Life[1]	≥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/Sungrow etc.

[1] Test conditions: 0.2C Charging& Discharging. @25*℃, 80% 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 C Rate	0.5C
Recommended Charge/Discharge Current	100A
Recommended Depth of Discharge (DOD)	85%
Net Weight	103 kg
Dimension[W*D*H]	555*210*928 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485/RS232
Cycle Life[1]	≥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/Sungrow etc.

[1] Test conditions: 0.2C Charging& Discharging. @25*℃, 80% 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





Tower

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 (optional)
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
Usable Energy	7.10 kWh	10.66 kWh	14.21 kWh	17.76 kWh	21.31 kWh
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[1]	4.26 kW	6.39 kW	8.52 kW	10.65 kW	12.78 kW
Recommended Depth of Discharge (DOD)	80%	80%	80%	80%	80%
Dimensions [W*D*H]	504*380*700 mm	504*380*900 mm	504*380*1100 mm	504*380*1300 mm	504*380*1500 mm
Net Weight [kg]	105 kg	146 kg	187 kg	228 kg	269 kg
Charging Temperature Range	0~50℃				
Discharging Temperature Range	-10~50℃				
Communication	CAN/RS485/RS232				
Cycle life[2]	≥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. 4 towers can be connected in parallel				
Certification	UN38.3/CE-EMC/IEC62040/IEC62619/IEC62477/IEC60730/IEC63056/UKCA/CEC Accredited/UL1973/VDE2510-50				
Compatible Inverters	Ingeteam/Kostal/Goodwe/Solis/SAJ/Sinexcel/Atess/Deye/Sunways/Ecactus etc.				

[1]Maximum Continuous Discharge/Charge Power when communicating with inverter is 0.6C
[2]Test conditions: 0.2C Charging& Discharging. @25°℃, 80% DOD

Tower Pro

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 4 clusters allows for a maximum capacity of 92.16 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.



Optimized User Experience
LED display, real-time monitoring & remote upgrade (optional)

High protection level
Indoor & outdoor installations

Ultra Rapid Charge
One hour to fully charge the battery

Easy to Install
Stackable auto-configuration modules, wireless connection

Wide Compatibility
Matching with leading inverters

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
Usable Energy	7.68 kWh	11.52 kWh	15.36 kWh	19.2 kWh	23.04 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[1]	7.68 kW	11.52 kW	15.36 kW	19.2 kW	23.04 kW
Recommended Depth of Discharge (DOD)	80%	80%	80%	80%	80%
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]	111.5 kg	153.5 kg	195.5 kg	237.5 kg	279.5 kg
Charging Temperature Range	0~50℃				
Discharging Temperature Range	-10~50℃				
Communication	CAN/RS485/RS232				
Cycle life[2]	≥6000 Cycles				
Protection Level	IP55				
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	HV9640				
Expansion	Max. 4 towers can be connected in parallel				
Certification	UN38.3/VDE2510-50/IEC62619/IEC63056/CE-LVD/CE-EMC all ongoing				
Compatible Inverters	Ingeteam/Kostal/Goodwe/Solis/SAJ/Sinexcel/Atess/Deye/Sunways/Ecactus/VDE etc.				

[1]Maximum Continuous Discharge/Charge Power when communicating with inverter is 1C
[2]Test conditions: 0.2C Charging& Discharging. @25°℃, 80% DOD

Energy Guarantee For Outdoor Activities







VB4850 & VB48100

DYNESS RV battery VB4850 & VB48100 with its high capacity and good performance is there to ensure your “mobile home” has the power for electronic accessories and protection against deep discharge damage. The reliable LiFePO4 technology ensures maximum safety and a longer life cycle.

Compact Design
Light weight & small size

High Safety
LFP & smart BMS

Wide Application
Applied in kinds of RVs

Technical Specifications

Model	VB4850	VB48100
Battery Type	LiFePO4	LiFePO4
Nominal Battery Energy	2.4 kWh	4.8 kWh
Nominal Capacity	50Ah	100Ah
Nominal Voltage	48V	48V
Operating Voltage	42~54.75V	42~54.75V
Recommended C Rate	0.5C	0.5C
Recommended Charge/Discharge Current	25A	50A
Max. Power Charge/Discharge Current	50A	75A
Peak Power Charge/Discharge Current	55A	100A (15S)
Depth of Discharge (DOD)	85%	85%
Net Weight	28.2 kg	28.2 kg
Dimension[W*D*H]	368*216*312mm	415*394*311 mm
Charging Temp. Range	0~55℃	0~55℃
Discharging Temp. Range	-20~55℃	-20~55℃
Communication	CAN/RS485	CAN/RS485/RS232
Cycle Life[1]	≥6000 Cycles	≥6000 Cycles
Protection Level	IP20	IP20
Expansion	Up to 40 units in parallel	Up to 30 units in parallel
Pros	Used as electricity power for RV	Used as electricity power for RV
Certification & Safety Standard	UN38.3	UN38.3
Compatible Inverters	SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Sungrow etc.	

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

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℃

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
Recommended 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)	85%
Net Weight	14 kg
Dimension[W*D*H]	306*183*185 mm
Charging Temp. Range	0~55℃
Discharging Temp. Range	-20~55℃
Communication	CAN/RS485
Cycle Life[1]	≥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

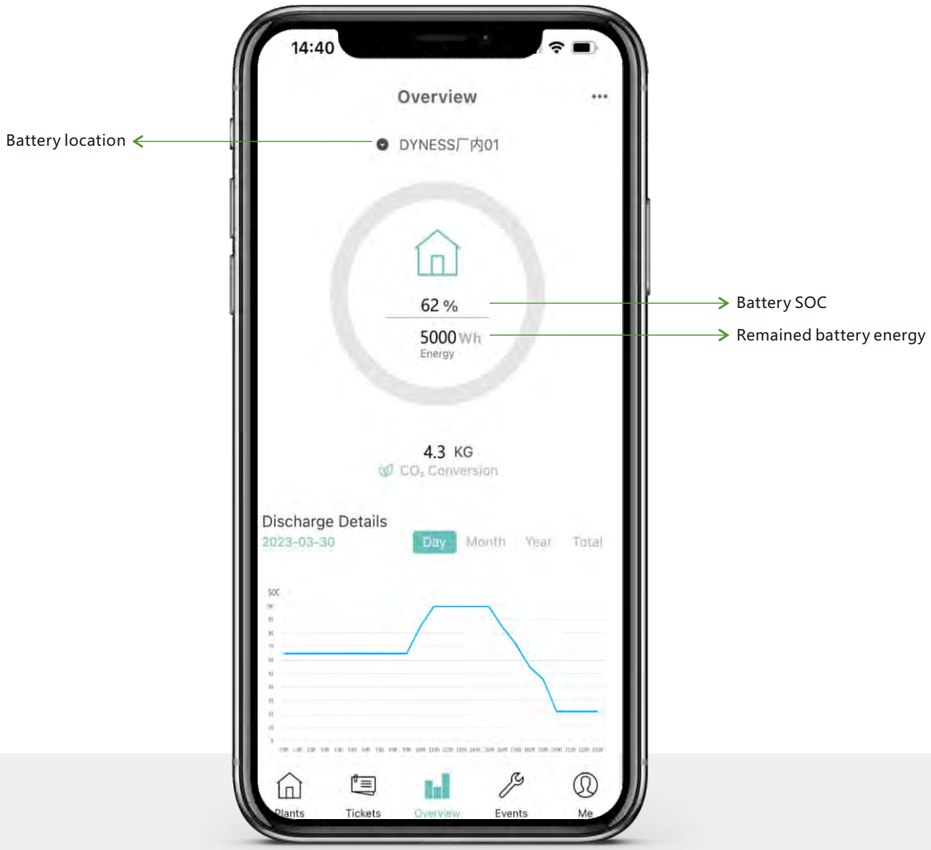
[1]Test conditions: 0.2C Charging/Discharging, @25℃, 80% DOD

Why Choose Dyness Energy System?

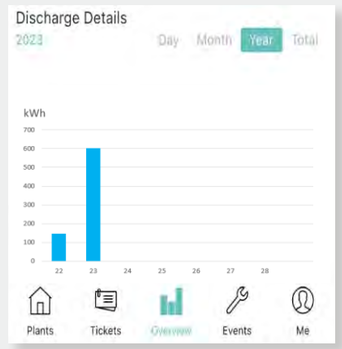
Monitor Your System with Dyness Smart APP and Website

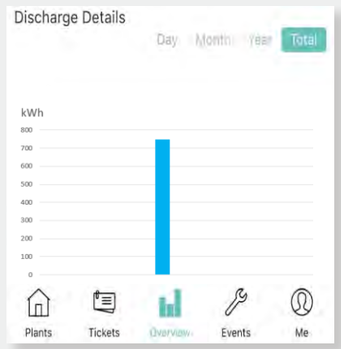
Monitor Your System with Dyness APP

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





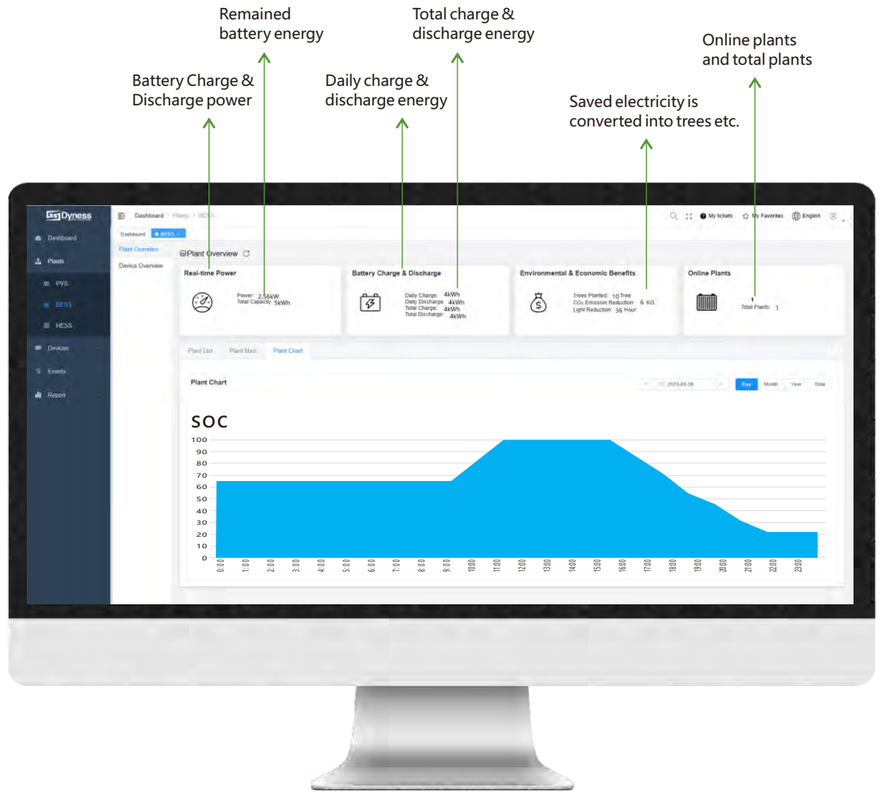




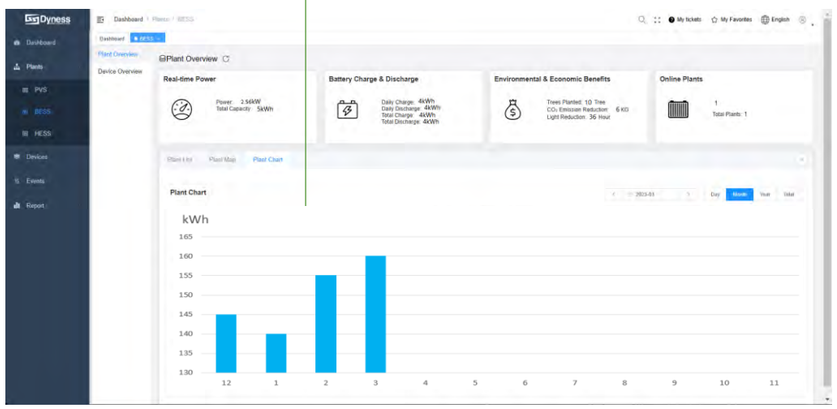
Cumulative discharge energy

Monitor Your System with Dyness Website

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



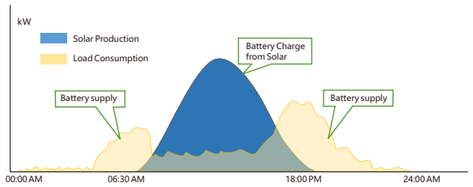
Monthly cumulative discharge energy



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.



With Solar Overloading Ability　　Without Solar Overloading Ability

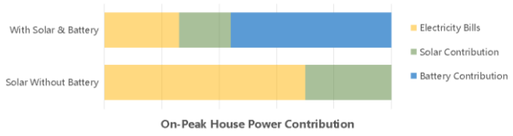
Time-Of-Use Mode: Battery Makes Your Solar Worth More

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.

Battery Operation Examples in Time-of-Use Mode

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.



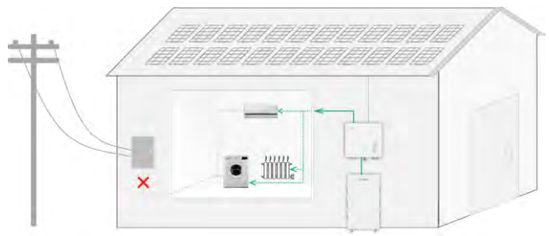
On-Peak House Power Contribution



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.

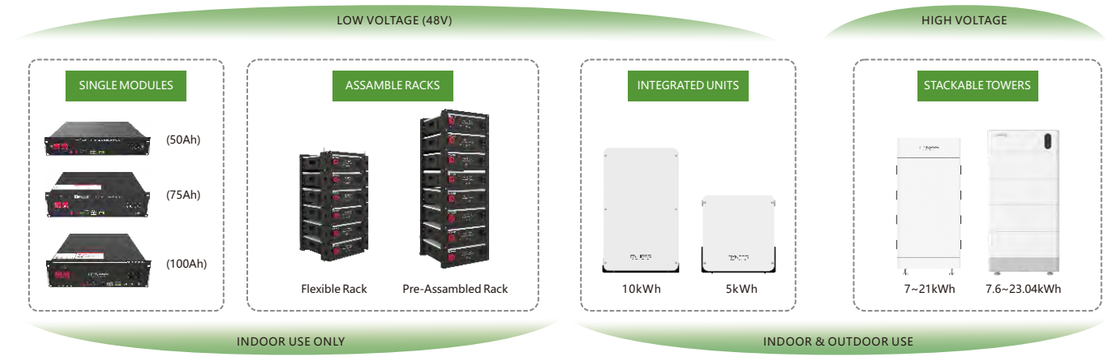
Dyness batteries are designed for power backup operations and off-grid solutions.



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.

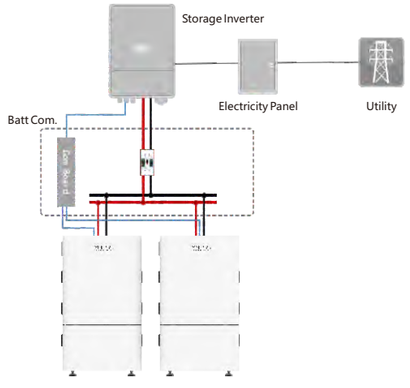


System Paralleling

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	4
HV Rack	DCB-HV	12 Racks
LV Rack	Customized	<40 Modules
Power Box Pro & Power Deport H5B	Customized	5

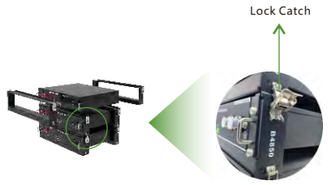


Reduce Soft Cost - Installer Friendly

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.

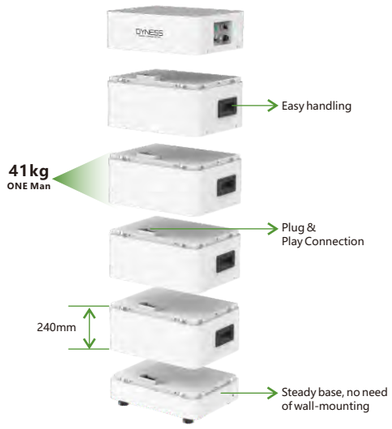
Easy Installation

Dyness Tower T series and Tower Pro battery are designed to enable plug & play installation to reduce installation time and minimize mis-operations.



Easy Energy Extension

Dyness provides a flexible rack solution for 50Ah, 75Ah and 100Ah low voltage battery modules, which makes system layout more flexible and energy extension easier.



Considerate Design - User Friendly

House Fit-In

Dyness select white color for its outdoor-used battery packs and have a good control on battery size to make sure that they are able to fit in most house styles and suitable for various installation spaces like garage or basement.





Convenient User Interface

Dyness battery has OTA function to allow users to check battery operations on smart phone and laptop both locally and remotely.

