

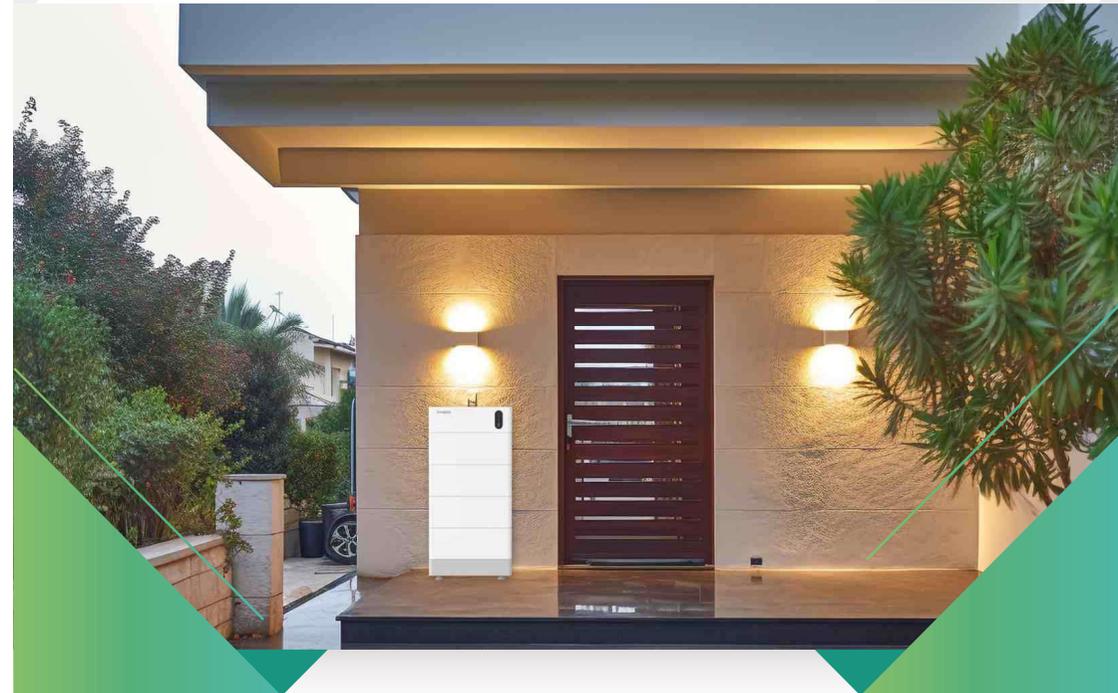


Discover Your Nature



Dyness

HOME ENERGY STORAGE SOLUTIONS



 Discover Your Nature

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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 100 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 300,000 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



150+
R&D Engineers



3
Production Bases



100+
Patents

Global Footprint



 **Main Shipping Areas**
 **Branches**

10
Global Branches

100+
Countries Reached

300,000+
Families Served

Top 100
Energy Brand 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.



3

2

1



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)	95%	95%	95%	95%	95%
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°C				
Discharging Temperature Range	-10~50°C				
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. 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	Ingeteam/Kostal/Goodwe/Solis/SAJ/Sinexcel/Atess/Deye/Sunways/Ecactus etc.				

[1]Maximum Continuous Discharge/Charge Power when communicating with inverter is 0.5C
[2]Test conditions: 0.5C Charging & Discharging, @25°C, 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 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.



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)	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	0~50°C				
Discharging Temperature Range	-10~50°C				
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. 12 Tower Pro can be connected in parallel				
Certification	UN38.3/VDE2510-50/IEC62619/IEC63056/IEC62477/IEC62040/CE-EMC/ROHS				
Compatible Inverters	Ingeteam/Kostal/Goodwe/Solis/SAJ/Sinexcel/Atess/Deye/Sunways/Ecactus etc.				

[1]Maximum Continuous Discharge/Charge Power when communicating with inverter is 1C
[2]Test conditions: 0.5C Charging & Discharging, @25°C, 80% DOD

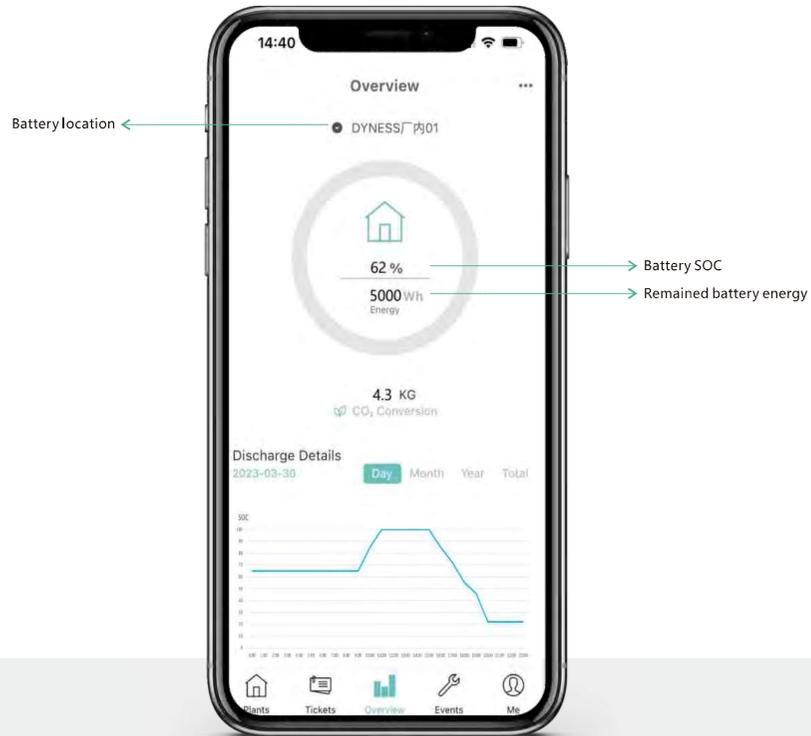
Why Choose Dyness Energy System?



Monitor Your System with Dyness Smart APP and Website

Monitor Your System with Dyness APP

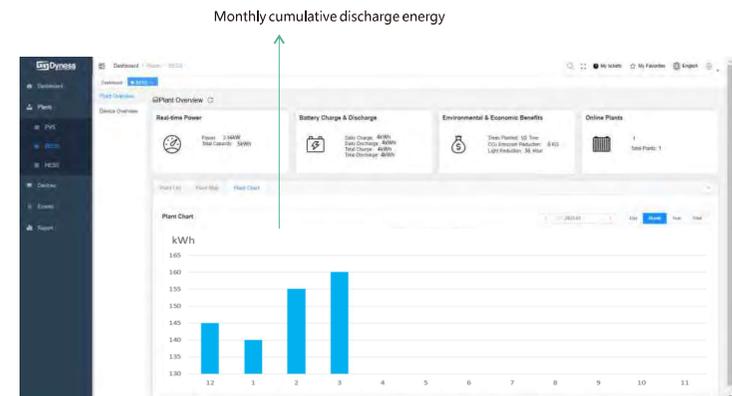
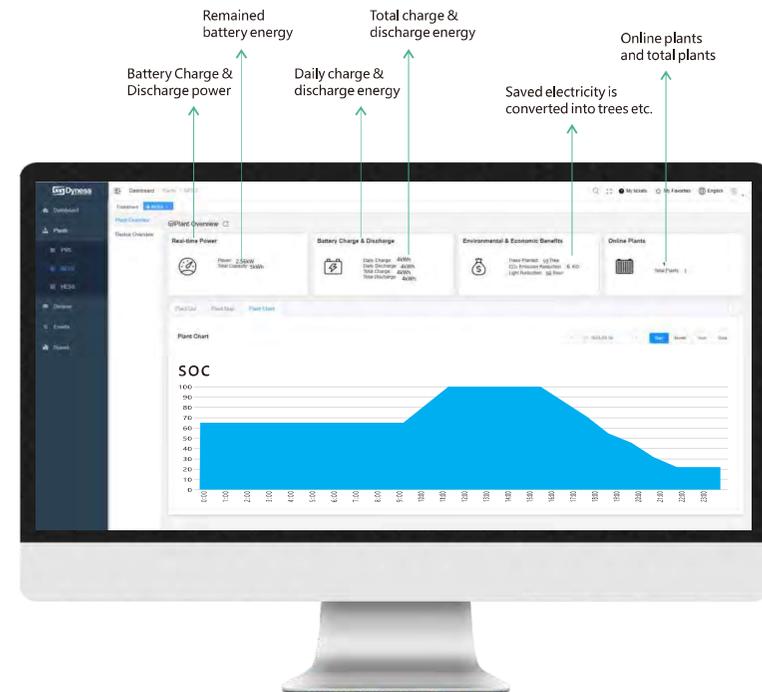
Download the Dyness Smart App in App Store or Google Play, User can monitor battery SOC, energy, etc. in real-time.



Cumulative discharge energy

Monitor Your System with Dyness Website

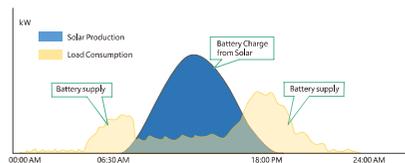
User can monitor battery SOC, energy, etc. in real-time via website as well.



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.



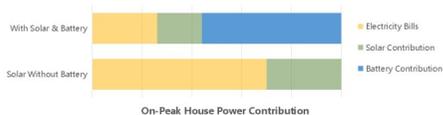
Time-Of-Use Mode: Battery Makes Your Solar Worth More

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

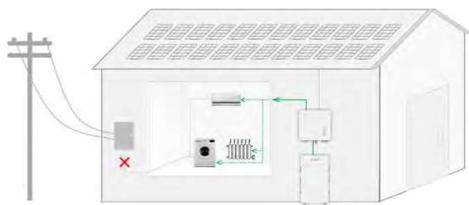
Battery is an essential path to reduce home electricity bills by reducing power consumption from utility, as well to provide a cheaper power source during On-Peaks.



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.

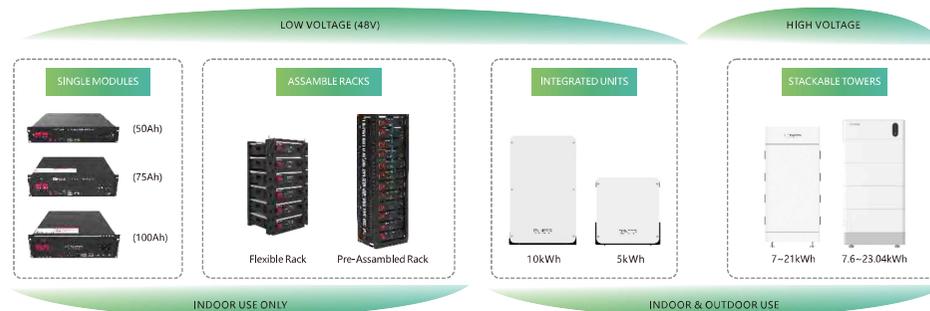
Dyness batteries are designed for power backup operations and off-grid solutions.



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.

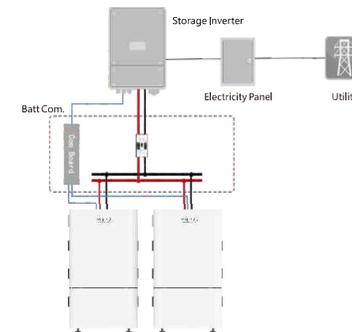


System Paralleling

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	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.

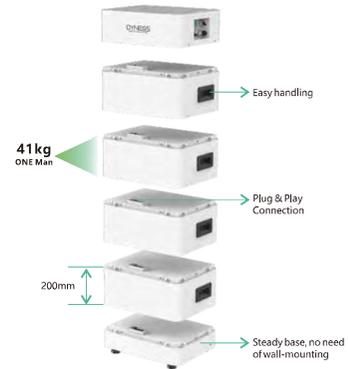
Easy Energy Extension

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.



Easy Installation

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



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.

