

Store Energy, Save The Planet





Dyness Battery

LiFePO4 Energy Storage System



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The growing popularity of solar rooftop installation on residential and commercial building is increasing interest in batteries that could store electricity from those installations.

Such battery storage systems could benefit homeowners, by giving them more control over how and when the obtain they power they need, while helping utilities to regulate the peak and frequency by shifting demand to off-peak hours and smoothing out the load on the system.

R&D Center · Xi'an City



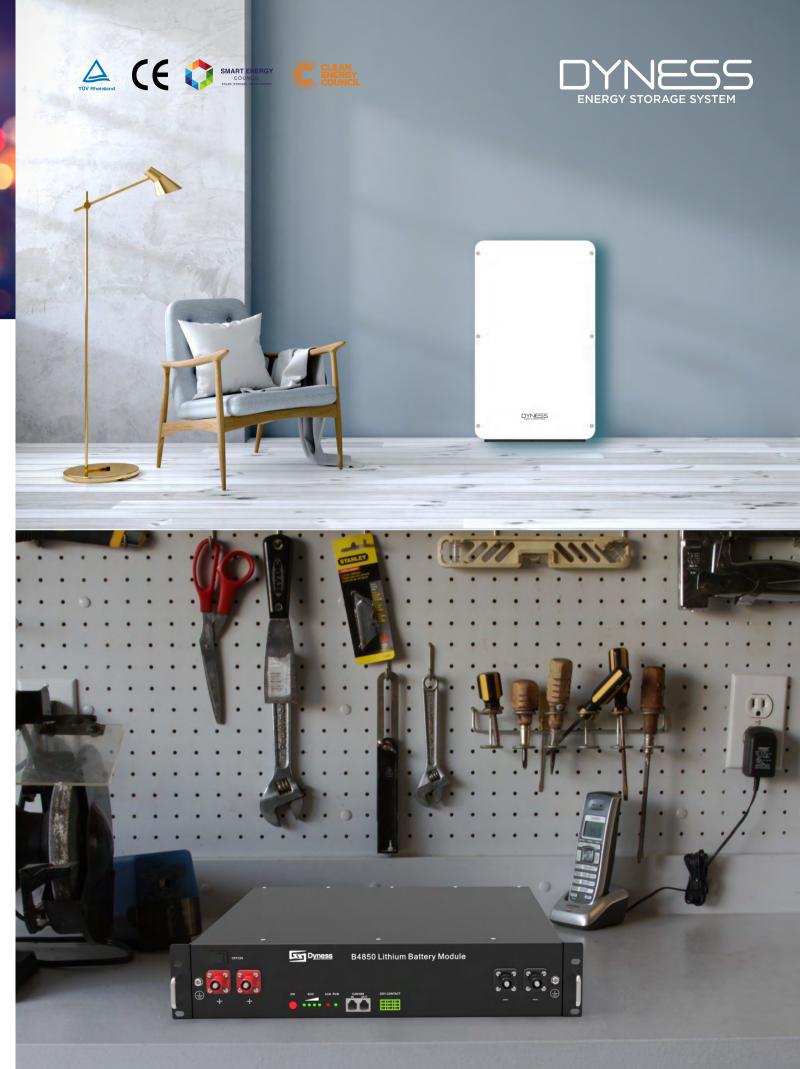
About Dyness

Dyness owns the professional team with top class experts in the battery storage industry. All products in our company are produced according to international standards, and passed TUV / CE / EN62619 / UL1973 / IEC62040 testing issues. We also formed a joint laboratory with Shaanxi Normal University, focusing on power battery research and development.

Our energy storage system stores excess power produced from solar in daytime, it can be used at night to increase greater energy self-sufficiency and security, or used at peak time to reduce household electric charges. Our battery is suitable for existing solar PV systems, also easy to be installed with new solar systems.

We, Dyness devote ourselves to responsible engineering of the safest, greenest possible future for you and your family. We have launched our latest Battery Energy Storage System (BESS) Powerbox to Australia, South-Ameria, Africa, Europe with moderate price and top class quality.

Let's start using the sunshine by schedule!





Dyness B4850

Battery module









[Intelligent]

• Each module is equipped with an independent BMS system

[Compact design]

- Weight/Kg 22
- •Size/mm 480 * 360 * 90
- Practical pull ear design improves operation convenience

[Safe]

- •Safe lithium iron phosphate battery cell
- •Compact size ultralight module

[Intelligent management]

- Dyness is equipped with intelligent BMS for each battery pack to manage modules effectively.
- Compared with the traditional module, B4850 can meet the capacity storage and greatly enhance the cycle life.

[Application]

•The Dyness battery B4850 module is widely used in energy storage and electrical products. Household energy storage systems; Centralized power station energy storage system.



Intelligent · Safe · Modular



SPECIFICATION

Model	B4850
Battery Type	LiFePO4
Nominal Battery Energy	2.4kWh
Nominal Capacity	50Ah
Nominal Voltage	48V
Charging Cut-off vol.	54V
Discharging End-off vol.	42V
Recommend C Rate	0.5C
Recommended Charge/Discharge Current[A]	25
Max.Power Charge/Discharge Current[A]	50
Peak Power Charge/Discharge Current[A]	100(15s)
Net Weight	22Kg
Dimension [W*D*H]	480*405*90mm
Charging Temp. Range	0 ~ 50°C
Discharging Temp. Range	-20 ~ 50°C
Communication	CAN / RS485 / RS232
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited/UL1973/CEI-021
Warranty	10 Years
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced
Pros	Can be used in both off-grid and hybrid setups, compact design
OTA Function-Remote upgrade	Yes
Calendar Life [1]	6000 Cycles
Protection Level	IP20















- LiFePO4 battery, Safe, Longer life span
- Modular design, Easy to stack, Quick installation
- Larger energy capacity
- Natural cooling with optional heat/fan configuration
- Wide temperature range of -20~50°C







SPECIFICATION

Model	В3
Battery Type	LiFePO4
Nominal Battery Energy	3.6kWh
Nominal Capacity	75Ah
Nominal Voltage	48V
Charging Cut-off vol.	54V
Discharging End-off vol.	42V
Recommend C Rate	0.5C
Recommended Charge/Discharge Current[A]	37.5
Max.Power Charge/Discharge Current[A]	75
Peak Power Charge/Discharge Current[A]	100(15s)
Net Weight	32.5Kg
Dimension [W*D*H]	480*405*130mm
Charging Temp. Range	0 ~ 50°C
Discharging Temp. Range	-20 ~ 50°C
Communication	CAN / RS485 / RS232
Certification & Safety Standard	TUV/CE/IEC 62619/UN38.3
Warranty	10 Years
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced
Pros	Can be used in both off-grid and hybrid setups, compact design
OTA Function-Remote upgrade	Yes
Calendar Life [1]	6000 Cycles
Protection Level	IP20

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



















Safe and Reliable - Higher Efficiency - Floor and Wall Mount - Flexible Size Dyness A48100 adopt economic design, is tailor made for residential and light commercial.

Features and advantages

- LiFePO4 battery, Safe, Longer life span
- Modular design, Easy to stack, Quick installation
- Larger energy capacity
- Natural cooling with optional heat/fan configuration
- Wide temperature range of -20~50°C
- With standard wall-mounted installation accessories
- Optional stacking brackets, will realize more than 8 modules stacking and paralleling without additional industrial cabinet.
- OTA Function: Remote monitoring and upgrade(Requires optional WiFi stick)





SPECIFICATION

Model	A48100			
Battery Type	LiFePO4			
Battery Capacity [Ah]	100			
Nominal Voltage [V]	48			
Nominal Battery Energy [kWh]	4.8			
Max Output Power [kW]	3.6			
Recommended Charge/Disch	arge Current[A] 50			
Max. Charge/Discharge C	urrent[A] 75			
Peak Power Charge/Discharg	ge Current[A] 100(15s)			
Dimension [H*W*D, mm]	504*597*155			
Working Voltage [V]	42~54			
Operating Temp. Range [*C]	-20~50			
Calendar Life [Cycles] [1]	3500			
Protection Level	IP20			
Communication	CAN/ RS485/ RS232			
Certification & Safety Standard	CE / UN38.3			
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced			
Scalabilitty [kWh]	Up to 40 units to parallel			
Net Weight [Kg]	45			
Warranty Document Supplied	Yes			
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 mount			
Monitoring & Protection	Each system has intelligent BMS, and breaker embedded in system			
Warranty	5 Years			

















- LiFePO4 battery, Safe, Longer life span
- Modular design, Easy to stack, Quick installation
- Larger energy capacity
- Natural cooling with optional heat/fan configuration
- Wide temperature range of -20~50°C
- OTA Function: Remote monitoring and upgrade(Requires optional WiFi stick)









SPECIFICATION

Model	B51100
Module Type	LFP
Nominal Voltage[V]	51.2
Work Voltage Range[V]	44.8~57.6
Nominal Capacity[Ah]	100
Nominal Energy [KWh]	5.12
Recommended Charge/Discharge Current[A]	50
Max.Power Charge/Discharge Current[A]	75
Peak Power Charge/Discharge Current[A]	100(15s)
Charge Voltage(Vdc)	56~57.6
Communication port	CAN/ RS485/ RS232
Max.Dimension [mm]	550(L)*481(W)*140(H)
Weight[kg]	≈ 43
Discharge condition[°C]	-20~50
Charge condition[°C]	0~50
Max. Discharge Power [kW]	3.84
Enclosure Protection (IP)	IP20
Warranty	10 years
Calendar Life [1]	6000 Cycles
Certification & Safety Standard	TUV/CE/IEC 62619 /UN38.3
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced
Pros	Can be used in both off-grid and hybrid setups, compact design, floor or wall mount
Monitoring & Protection	Each system has intelligent BMS, and breaker embedded in system
Configuration	40 modules parallel at most













Dyness Powerbox

[Powerbox]

Adopts LiFePO4 chemistry battery with safety performance and long life time, which offers you four capacities to meet your more requirements.

TUV Certified · CEC Accredited · IP65 Protection · Flexible Expansion





Features and advantages

- Compact Size & Light Weight
- High Power Output & Usable Energy Ratio
- Modular Design & Expandable System
- Safest Battery & Perfect Compatibility
- Natural cooling & Easy Installation
- Certifications Available





SPECIFICATION

Model	Powerbox				
Battery Type	LiFePO4				
Battery Module	F-2.5 1 Module	F-5.0 2 Modules	F-7.5 3 Modules	F-10.0 4 Modules	
Battery Capacity [Ah]	50	100	150	200	
Nominal Battery Energy [kWh]	2.4	4.8	7.2	9.6	
Max Output Power [kW]	2.4	4.8	4.8	4.8	
Net Weight [Kg]	47	69	91	113	
Dimension [H*W*D, mm]		928*5	55*210		
Working Voltage [V]		42	~54		
Operating Temp. Range [°C]		-20~50			
Calendar Life [Cycles] [1]	6000				
Nominal Voltage [V]	48				
Protection Level	IP65				
Communication	CAN / RS485 / DRY CONTACT				
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited/UL1973/CEI-021				
Scalabilitty [kWh]	Up to 4 units to parallel				
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced				
Warranty	10 Years				
Warranty Document Supplied	Yes				
Color	White				
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit				
Pros	Can be used in both off-grid and hybrid setups, compact design, modular expansion				
Monitoring & Protection	Each module has BMS, breaker embedded in system				















- Safest LiFePO4 rechargeable battery
- Higher usable energy ratio, less self consumption
- 1/3 weight of equivalant capacity Lead-Acid battery
- Plug and Play, quick installation, up to 3 unit parallel
- Wide temperature range of -20~50°C
- Contains no toxic heavy metals or caustic materials





SPECIFICATION

Model	Power	Depot			
Battery Type	LiFe	PO4			
Battery Module	H2.5	H5			
Battery Capacity [Ah]	50	100			
Nominal Battery Energy [kWh]	2.4	4.8			
Max Output Power [kW]	2.4	4.8			
Net Weight [Kg]	44	65			
Dimension [H*W*D, mm]	574*22	28*600			
Working Voltage [V]	42	~54			
Operating Temp. Range [°C]	-20	~50			
Calendar Life [Cycles] [1]	6000				
Nominal Voltage [V]	48				
Protection Level	IP65				
Communication	CAN / RS485 / DRY CONTACT				
Certification & Safety Standard	TUV/CE/UN38.3/CEI-021				
Scalabilitty [kWh]	Up to 4 units to parallel				
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced				
Warranty	10 Years				
Warranty Document Supplied	Yes				
Color	White				
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit				
Pros	Can be used in both off-grid and hybrid setups, compact design, modular expansion				
Monitoring & Protection	Each module has BMS, breaker embedded in system				













- Safest LiFePO4 rechargeable battery
- Higher usable energy ratio, less self consumption
- 1/3 weight of equivalant capacity Lead-Acid battery
- Plug and Play, quick installation, up to 4 unit parallel
- Wide temperature range of -20~50°C
- Contains no toxic heavy metals or caustic materials
- OTA Function: Remote monitoring and upgrade(Requires optional WiFi stick)







SPECIFICATION

Model		PowerDepot H5B		
Battery Type		LiFePO4		
Battery Capacity [Ah]		100		
Nominal Voltage [V]		51.2		
Nominal Battery Energy [kWh]		5.12		
Max Output Power [kW]		3.84		
Recommended Charge/Disch	arge Current[A]	50		
Max. Charge/Discharge C	Current[A]	75		
Net Weight [Kg]		65		
Dimension [H*W*D, mm]		574*228*600		
Working Voltage [V]		44.8~57.6		
Operating Temp. Range [*C]	-20~50			
Calendar Life [Cycles] [1]	6000			
Protection Level	IP65			
Communication	CAN/ RS485/ RS232			
Certification & Safety Standard	CE / UN38 3			
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced			
Scalabilitty [kWh]		Up to 4 units to parallel		
Warranty	10 Years			
Warranty Document Supplied	Yes			
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 mount			
Monitoring & Protection	Each system h	as intelligent BMS, and breaker embedded in system		













Dyness Powercube B4850

Dyness Powercube is tailor made for larger residential and light commercial. **TUV Certified** · CEC Accredited · IP65 Protection · Flexible Expansion





Features and advantages

- Compact Size & Light Weight
- High Power Output & Usable Energy Ratio
- Modular Design & Expandable System
- Safest Battery & Perfect Compatibility
- Natural cooling & Easy Installation
- Certifications Available
- OTA Function: Remote monitoring and upgrade (Requires optional WiFi stick)





SPECIFICATION

Model	Powercube						
Battery Type	LiFePO4						
Battery Module	5 Modules 6 Modules 7 Modules 8 Modules 9 Modules						
Battery Capacity [Ah]	250	300	350	400	450		
Nominal Battery Energy [kWh]	12	14.4	16.8	19.2	21.6		
Working Voltage [V]			42~54				
Operating Temp. Range [°C]			-20~50				
Calendar Life [Cycles] [1]			6000				
Nominal Voltage [V]		48					
Protection Level	IP65						
Communication	CAN / RS485 / DRY CONTACT / RS232						
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited/UL1973/CEI-021						
Scalabilitty [kWh]	40 modules parallel at most						
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced						
Warranty	10 Years						
Warranty Document Supplied	Yes						
Color	White						
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit						
Pros	Can be used in both off-grid and hybrid setups, compact design, modular expansion						
Monitoring & Protection	Each module has BMS						













Dyness Powercube B3

Dyness Powercube is tailor made for larger residential and light commercial. **TUV Certified** · CEC Accredited · IP65 Protection · Flexible Expansion





Features and advantages

- Compact Size & Light Weight
- High Power Output & Usable Energy Ratio
- Modular Design & Expandable System
- Safest Battery & Perfect Compatibility
- Natural cooling & Easy Installation
- Certifications Available
- OTA Function: Remote monitoring and upgrade (Requires optional WiFi stick)





SPECIFICATION

Model			Powercube			
Battery Type		LiFePO4				
Battery Module	5 Modules 6 Modules 7 Modules 8 Modules 9 Modules					
Battery Capacity [Ah]	375	450	525	600	675	
Nominal Battery Energy [kWh]	18	21.6	25.2	28.8	32.4	
Working Voltage [V]			42~54			
Operating Temp. Range [°C]			-20~50			
Calendar Life [Cycles] [1]			6000			
Nominal Voltage [V]		48				
Protection Level	IP65					
Communication	CAN / RS485 / DRY CONTACT / RS232					
Certification & Safety Standard	TUV/CE/IEC 62619/UN38.3					
Scalabilitty [kWh]	40 modules parallel at most					
Compatible Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced					
Warranty	10 Years					
Warranty Document Supplied	Yes					
Color	White					
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit					
Pros	Can be used in both off-grid and hybrid setups, compact design, modular expansion					
Monitoring & Protection	Each module has BMS					













Dyness Tower

Safe and Reliable - IP54 Protection - Flexible Size - Quick Installation





Features and advantages

- Maximum safety performance with LFP technologies
- Built-in aluminum heat sink, optional heating solutions
- Compact design with flexible size options
- IP54 protection for indoor and outdoor use
- Compatible with leading inverter brands
- Black start function available, quick installation





SPECIFICATION

Model	Tower T7	Tower T10	Tower T14	Tower T17	Tower T21
Usable 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 [2]	4.26KW	6.39KW	8.52KW	10.65KW	12.78KW
Maximum Continuous Charge Power ^[2]	4.26KW	6.39KW	8.52KW	10.65KW	12.78KW
Net Weight	105Kg	146Kg	187Kg	228Kg	269Kg
Dimension[W*D*H]	700*504*380mm	900*504*380mm	1100*504*380mm	1300*504*380mm	1500*504*380mm
Protection Level	IP54	IP54	IP54	IP54	IP54
Calendar Life [1]	6000 Cycles	6000 Cycles	6000 Cycles	6000 Cycles	6000 Cycles
Charging Temperature Range	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C
Discharging Temperature Range	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C
Internal Battery Module	HV9637	HV9637	HV9637	HV9637	HV9637
Module Connection	series	series	series	series	series
Module Number	2	3	4	5	6
Communication	CAN	CAN	CAN	CAN	CAN
Warranty	10 Years	10 Years	10 Years	10 Years	10 Years
Compatible Inverter	Goodwe, Luxpower, more brands are under testing				
Certification	TUV/CE/IEC62619/IEC62040/UN38.3/CEC Accredited/UL1973				

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













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