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RESIDENTIAL

ENERGY STORAGE SOLUTIONS

www.dyness-tech.com

DYNESS is a high-tech company focusing on research and manufacturing of LFP (LiFePO₄) battery energy storage solutions.

DYNESS has a team of industrial leaders and senior doctoral experts with vast experience in development, manufacturing, integration and management, which is our core competence. The company has great capability in independent material and product development, in order to manufacture excellent power battery products.

Currently DYNESS owns two R&D centers and two production factories in China. With strong R&D capability and production capacity, DYNESS has developed outstanding products for 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 certifications.

At present, DYNESS leading energy solutions has delivered over 60000 projects or shipments in Europe, Oceania, Africa and Asia, helping users realize energy self-sufficiency and ultimate energy independence, achieving the cleaner world goal, and alleviating grid stress significantly.

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

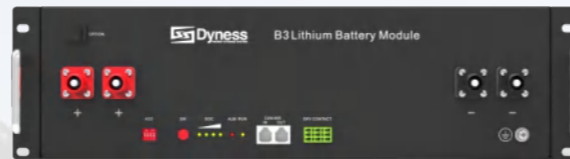
Founded

PRODUCTS

01 Battery Module 50-100Ah



B4850



B3



B51100



A48100

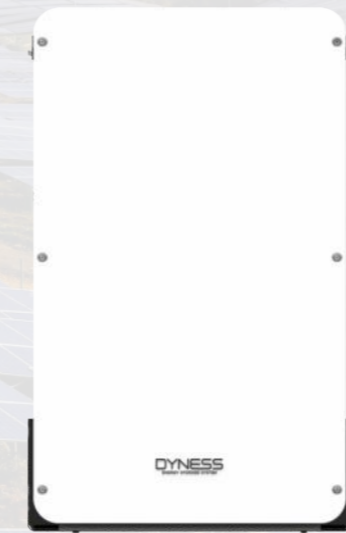
02 Battery System



PowerDepot H5



PowerDepot H5B



Powerbox



Powerbox Pro



Powercube



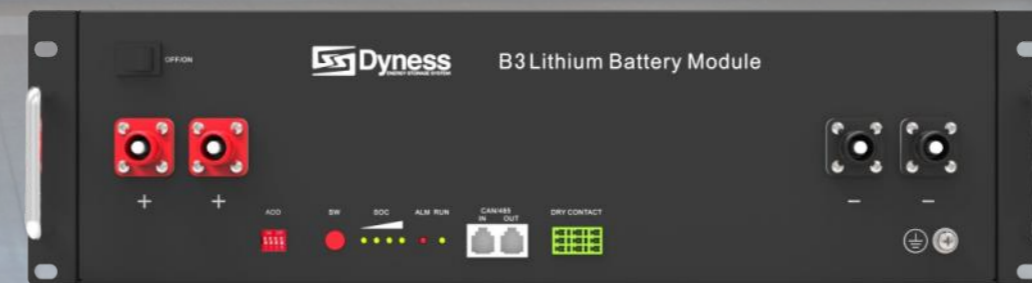
HV Tower

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-off vol.	42V
Recommended C Rate	0.5C
Recommended Charge/Discharge Current	25A
Max. Power Charge/Discharge Current	50A
Peak Power Charge/Discharge Current	55A (Protect)
Net Weight	22kg
Dimension[W*D*H]	480*360*90mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
Warranty	10 Years
Calendar 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
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-off vol.	42V
Recommended 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	≈31kg
Dimension[W*D*H]	480*360*130mm
Charging Temp. Range	-0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
Warranty	10 Years
Warranty Document Supplied	Yes
Calendar 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
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	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Charging Cut-off vol.	57.6V
Discharging End-off vol.	44.8V
Recommended C Rate	0.5C
Recommended Charge/Discharge Current	50A
Max. Power Charge/Discharge Current	75A
Peak Power Charge/Discharge Current	100A (15s)
Net Weight	44kg
Dimension[W*D*H]	481*535*140mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Warranty	10 Years
Warranty Document Supplied	Yes
Calendar 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
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 stacked



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	4.8kWh
Nominal Capacity	100Ah
Nominal Voltage	48V
Charging Cut-off vol.	54.75V
Discharging End-off 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	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Warranty	10 Years
Warranty Document Supplied	Yes
Calendar 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
Compatible Inverters	Victron/SMA/Goodwe/Imeon/Solis/SAJ/ Growatt/Luxpower/Voltronic/Deye etc.
Certification & Safety Standard	CE/UN38.3/CEI-021 undergoing

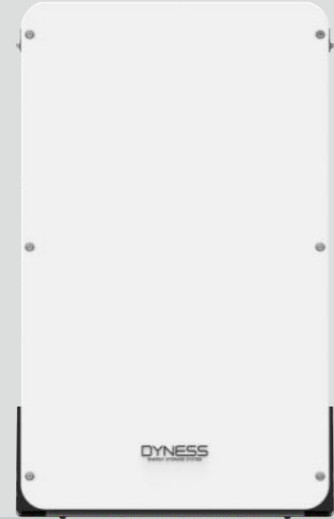
[1]Test conditions:0.1C Charging/Discharging,@25°C,80% DOD

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



Wide Temperature
Range of -20~55°C



High Safety
LFP & smart BMS



Wide Compatibility
Matching with leading inverter brands



Technical Parameters

Model	Powerbox			
Battery Type	LiFePO4			
System Model	Powerbox F-2.5 1 Module	Powerbox F-5.0 2 Modules	Powerbox F-7.5 3 Modules	Powerbox F-10.0 4 Modules
Nominal 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	0~55°C			
Discharging Temp. Range	-20~55°C			
Communication	CAN/RS485			
Warranty	10 Years			
Warranty Document Supplied	Yes			
Calendar Life ^[1]	≥6000 Cycles			
Protection Level	IP65			
Expansion	Up to 5 units in parallel			
Color	White			
Alarms	Overcharge/Overdischarge/Overcurrent/ Overtemperature/ Short Circuit			
Safe & 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/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



Wide Temperature
Range of -20~55°C



High Safety
LFP & smart BMS



Wide Compatibility
Matching with leading inverter brands



Technical Parameters

Model	Powerbox Pro
Battery Type	LiFePO4
Nominal Capacity	200Ah
Nominal Battery Energy	10.24kWh
Nominal Voltage	51.2V
Recommend Output Power	5.12kW
Max Output Power	7.68kW
Net Weight	103kg
Dimension[W*D*H]	555*210*928mm
Working Voltage	44.8-57.6V
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Warranty	10 Years
Warranty Document Supplied	Yes
Calendar Life ^[1]	≥6000 Cycles
Protection Level	IP65
Expansion	Up to 5 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, modular expansion
Compatible Inverters	Victron/SMA/Goodwe/Imeon/Solis/SAJ/ Growatt/Luxpower/Voltronic/Deye etc.
Certification & Safety Standard	CE/UN38.3/IEC62619/IEC62040 undergoing

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

Dyness PowerDepot



IP65
High protection level



More Flexible Installation
Wall-mounted or floor-standing outdoor solution



Expandable
5 systems in parallel with capacity up to 24kWh



High Safety
LFP & smart BMS



Wide Compatibility
Matching with leading inverter brands



Technical Parameters

Model	PowerDepot	
Battery Type	LiFePO4	
System Model	PowerDepot H2.5	PowerDepot H5
Nominal 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	0~55°C	
Discharging Temp. Range	-20~55°C	
Communication	CAN/RS485	
Warranty	10 Years	
Warranty Document Supplied	Yes	
Calendar Life ^[1]	≥6000 Cycles	
Protection Level	IP65	
Expansion	Up to 5 units in parallel	
Color	White	
Alarms	Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit	
Safe & 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/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 Installation
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
Nominal Capacity	100Ah
Nominal Battery Energy	5.12kWh
Nominal Voltage	51.2V
Max Output Power	3.84kW
Net Weight	55kg
Dimension[W*D*H]	574*228*600mm
Working Voltage	44.8-57.6V
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
Warranty	10 Years
Warranty Document Supplied	Yes
Calendar Life ^[1]	≥6000 Cycles
Protection Level	IP65
Expansion	Up to 5 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/IEC62619/IEC62040 undergoing

[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 installation



High Safety LFP
LFP & smart BMS



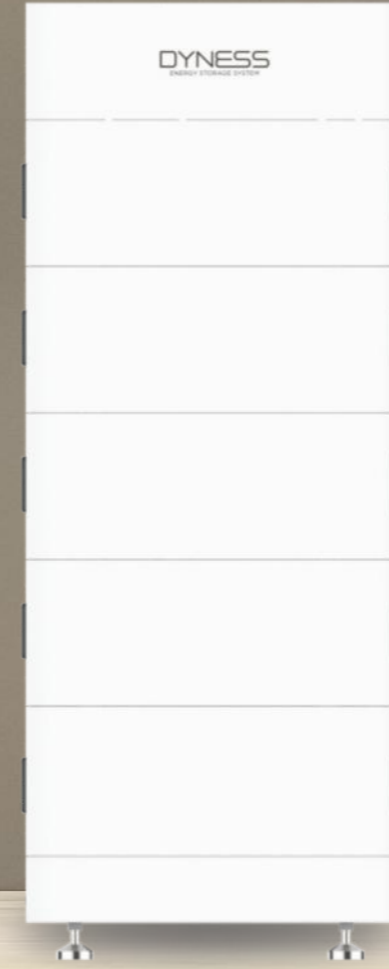
Wide Compatibility
Matching with leading inverter brands



Technical Parameters

Model	Powercube B4850					Powercube B3				
Battery Type	LiFePO4					LiFePO4				
Number Module	5Modules	6Modules	7Modules	8Modules	9Modules	5Modules	6Modules	7Modules	8Modules	9Modules
Nominal 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	0~55°C									
Discharging Temp. Range	-20~55°C									
Communication	CAN/RS485									
Warranty	10 Years									
Warranty Document Supplied	Yes									
Calendar Life ^[1]	≥6000 Cycles									
Protection Level	IP65									
Color	White									
Alarms	Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit									
Safe & 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.									
Expansion	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
Module Number	2	3	4	5	6
Nominal Capacity	37Ah	37Ah	37Ah	37Ah	37Ah
Nominal Battery Energy	7.10kWh	10.66kWh	14.21kWh	17.76kWh	21.31kWh
Nominal Voltage	192V	288V	384V	480V	576V
Maximum Continuous Charge/Discharge Power ^[2]	4.26kW	6.39kW	8.52kW	10.65kW	12.78kW
Dimension [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	105kg	146kg	187kg	228kg	269kg
Charging Temp. Range	0~50°C				
Discharging Temp. Range	-10~50°C				
Communication	CAN				
Warranty	10 Years				
Warranty Document Supplied	Yes				
Calendar Life ^[1]	≥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/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