

Dyness

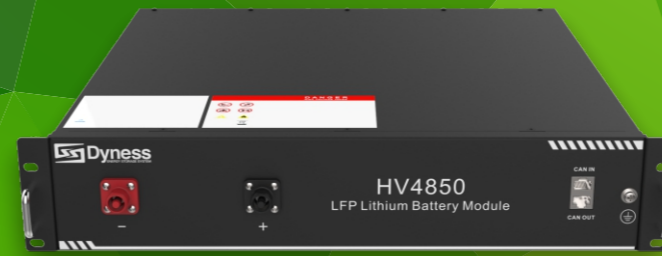
HV Series

High Voltage Battery



## Features and advantages

- High safety performance with LFP technologies
- Compact design, Light weight, Quick installation
- Modular design, Free configuration in series
- Flexible control, Cover all needs in commercial fields
- Keep you powered on all the time, cut the charges now
- LFP Wide temperature range of -20~50°



## SPECIFICATION

Model	HV4850	HV4875	HV48100
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Battery Energy	2.4kWH	3.6kWH	4.8kWH
Nominal Capacity	50Ah	75Ah	100Ah
Nominal Voltage	48V	48V	48V
Operating vol. Range	42~54V	42~54V	42~54V
Nominal Power Output	1.44kW	2.16kW	2.88kW
Max. Power Output	2.4kW	3.6kW	4.8kW
Recommend Charging Current	25A	37.5A	50A
Recommend Discharging Current	25A	37.5A	50A
Net Weight	23kg	31.5kg	40kg
Dimension [W*D*H]	481×410×89mm	481×410×133mm	481×410×178mm
Calendar Life <sup>[1]</sup>	6000 Cycles		
Configuration	Up to 15 module in series		
Communication	CAN		
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit		
Compatible Inverters	Goodwe, Solis, Growatt, Sermatec, ATESS, SINEXCEL, Hoymiles, Ecactus More brand will be announced		
Warranty	5 Years		
Charging Temp. Range	0 ~ 50°C		
Discharging Temp. Range	-20 ~ 50°C		
Protection Level	IP20		
Certification & Safety Standard	UN38.3/UL 1642(Battery cell)		

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

# Dyness Rack System HV1

Take time for greater control in energy with Dyness Rack System

▪ Safe and Reliable ▪ Higher Efficiency ▪ IP 20 Protection ▪ Flexible Expansion



## Features and advantages

- LiFePO4 energy storage system , longer life span
- Safest kind battery with modular design
- Quick installation and wide operation temperature range
- Flexible control , cover all needs in commercial fields
- Keep you powered on all the time, cut the charges now



## SPECIFICATION

Model	Dyness Rack System HV1	
Rack Type	PowerRack HV1-21	PowerRack HV1-36
Module Type	HV4850	HV4850
Battery Module Quantity	9 Units	15 Units
Battery Type	LiFeO4	LiFeO4
Nominal Battery Energy	21.6kWH	36kWH
Nominal Capacity	450Ah	750Ah
Nominal Voltage	432V	720V
Operating vol. Range	378~486V	620~810V
Nominal Power Output	12.96kW	21.6kW
Max. Power Output	21.6kW	36kW
Recommend Charging Current	25A	25A
Recommend Discharging Current	25A	25A
Net Weight	277.5kg	444.5kg
Dimension [W*D*H]	601×510×1250mm	601×510×1917mm
Module Number and Configuration	9 Units in Series	15 Units in Series
Rack System Control Unit Type <sup>[2]</sup>	BDU50	BDU50
Calendar Life <sup>[1]</sup>	6000 Cycles	
Configuration	Up to 15 module in series. Rack units connected in parallel to get larger capacity.	
Communication	CAN	
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit	
Compatible Inverters	Goodwe, Solis, Growatt, Sermatec, ATESS, SINEXCEL, Hoymiles, Ecactus More brand will be announced	
Warranty	5 Years	
Charging Temp. Range	0 ~ 50℃	
Discharging Temp. Range	-20 ~ 50℃	
Protection Level	IP20	
Certification & Safety Standard	UN38.3/UL 1642(Battery cell)	

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

[2] HV4850 battery module need to be used with BDU.

# Dyness Rack System HV2

Take time for greater control in energy with Dyness Rack System

▪ Safe and Reliable ▪ Higher Efficiency ▪ IP 20 Protection ▪ Flexible Expansion



## Features and advantages

- LiFePO4 energy storage system , longer life span
- Safest kind battery with modular design
- Quick installation and wide operation temperature range
- Flexible control , cover all needs in commercial fields
- Keep you powered on all the time, cut the charges now



## SPECIFICATION

Model	Dyness Rack System HV2	
Rack Type	PowerRack HV2-25	PowerRack HV2-39
Module Type	HV4875	HV4875
Battery Module Quantity	7 Units	11 Units
Battery Type	LiFeO4	LiFeO4
Nominal Battery Energy	25.2kWH	39.6kWH
Nominal Capacity	525Ah	825Ah
Nominal Voltage	336V	528V
Operating vol. Range	294~378V	462~594V
Nominal Power Output	15.12kW	23.76kW
Max. Power Output	25.2kW	39.6kW
Recommend Charging Current	37.5A	37.5A
Recommend Discharging Current	37.5A	37.5A
Net Weight	295.5kg	446.7kg
Dimension [W*D*H]	601×510×1393mm	601×510×2013mm
Module Number and Configuration	7 Units in Series	11 Units in Series
Rack System Control Unit Type <sup>[2]</sup>	BDU100	BDU100
Calendar Life <sup>[1]</sup>	6000 Cycles	
Configuration	Up to 15 module in series. Rack units connected in parallel to get larger capacity.	
Communication	CAN	
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit	
Compatible Inverters	Goodwe, Solis, Growatt, Sermatec, ATESS, SINEXCEL, Hoymiles, Ecactus More brand will be announced	
Warranty	5 Years	
Charging Temp. Range	0 ~ 50℃	
Discharging Temp. Range	-20 ~ 50℃	
Protection Level	IP20	
Certification & Safety Standard	UN38.3/UL 1642(Battery cell)	

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

[2] HV4875 battery module need to be used with BDU.

# Dyness Rack System HV3

Take time for greater control in energy with Dyness Rack System

▪ Safe and Reliable ▪ Higher Efficiency ▪ IP 20 Protection ▪ Flexible Expansion



## Features and advantages

- LiFePO4 energy storage system , longer life span
- Safest kind battery with modular design
- Quick installation and wide operation temperature range
- Flexible control , cover all needs in commercial fields
- Keep you powered on all the time, cut the charges now



## SPECIFICATION

Model	Dyness Rack System HV3	
Rack Type	PowerRack HV3-24	PowerRack HV3-43
Module Type	HV48100	HV48100
Battery Module Quantity	5 Units	9 Units
Battery Type	LiFeO4	LiFeO4
Nominal Battery Energy	24kWH	43.2kWH
Nominal Capacity	500Ah	900Ah
Nominal Voltage	240V	432V
Operating vol. Range	210~270V	378~486V
Nominal Power Output	14.4kW	25.92kW
Max. Power Output	24kW	43.2kW
Recommend Charging Current	50A	50A
Recommend Discharging Current	50A	50A
Net Weight	260kg	445kg
Dimension [W*D*H]	601×510×1322mm	601×510×2126mm
Module Number and Configuration	5 Units in Series	9 Units in Series
Rack System Control Unit Type <sup>[2]</sup>	BDU100	BDU100
Calendar Life <sup>[1]</sup>	6000 Cycles	
Configuration	Up to 15 module in series. Rack units connected in parallel to get larger capacity.	
Communication	CAN	
Alarms	Overcharge Overdischarge Overcurrent Overtemperature Short Circuit	
Compatible Inverters	Goodwe, Solis, Growatt, Sermatec, ATESS, SINEXCEL, Hoymiles, Ecactus More brand will be announced	
Warranty	5 Years	
Charging Temp. Range	0 ~ 50℃	
Discharging Temp. Range	-20 ~ 50℃	
Protection Level	IP20	
Certification & Safety Standard	UN38.3/UL 1642(Battery cell)	

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

[2] HV48100 battery module need to be used with BDU.