

PowerRack HV1

Dyness HV1 PowerRack is designed for indoor use high voltage battery. The extendable energy design is suitable for both residential and commercial scenarios. The battery modules are specially designed for serial connection to maximize cost effectiveness.



Voltage Range
168~876V



High Safety LFP
LFP & smart BMS



Expandable
Capacity up to 38.4kWh per cluster



Tailor-made Cabinet
Suitable for multi-module installation



High Voltage
High system efficiency



Wide Application
Cover all needs in commercial fields

Technical Specifications

Model	HV4850
Battery Type	LiFePO4
Nominal Battery Energy	2.4kWh
Nominal Capacity	50Ah
Nominal Voltage	48V
Net Weight	23kg
Dimension(W*D*H)	481*410*89mm
Charging Temp. Range	0-55°C
Discharging Temp. Range	-10-55°C
Communication	CAN
Cycle Life ^[1]	>6000 Cycles
Protection Level	IP20
Expansion	Up to 16 units in series
Compatible Inverters	Goodwe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec /ATESS/Sunways etc.
Certification & Safety Standard	UN38.3/CE-EMC

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

Model	PowerRack HV1	
Rack Type	PowerRack HV1-9s	PowerRack HV1-15s
Battery Module Type	HV4850	HV4850
Battery Module Quantity	9 units	15 units
Nominal Battery Energy	21.6kWh	36kWh
Nominal Capacity	50Ah	50Ah
Nominal Voltage	432V	720V
Operating Vol. Range	378-486V	630-810V
Nominal Power Output	12.96kW	21.6kW
Max.Power Output	21.6kW	21.6kW
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
Rack System Control unit Type ^[1]	BDU50	BDU50
Module Quantity and Configuration	9 Units in series	15 Units in series

[1]HV4850 battery module need to be used with BDU50 control unit