

PowerRack HV4F

Dynness HV4F rack system is also designed for indoor use high-voltage systems, with a larger capacity of each module to fit medium C&I scenarios, to increase solar self-consumption, provide backup power or peak-shavings, etc.



Voltage Range
313.6~864V



High Safety LFP
LFP & smart BMS



Expandable
Single system capacity:
35.84-76.8kwh



Tailor-made Cabinet
Suitable for multi-module installation



High Voltage
High system efficiency



Wide Application
Cover all needs in commercial fields

Technical Specifications

Model	HV51100F
Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Net Weight	47kg
Dimension(W*D*H)	548*554*152.8mm
Charging Temp. Range	0-55°C
Discharging Temp. Range	-10-55°C
Communication	CAN/RS485
Cycle Life ^[1]	>6000 Cycles
Protection Level	IP20
Expansion	7-15 units in series
Certification & Safety Standard	UN38.3
BMS Balance	Passive Balancing

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 95% DOD

Model	PowerRack HV4F		
Rack Type	PowerRack HV4F		
Rack System Control unit Type	BDU100		
Battery Module Type	HV51100F		
Battery Module Quantity	7~8 units	9~11 units	12~15 units
Nominal Battery Energy	5.12kWh×n(n=7~8)	5.12kWh×n(n=9~11)	5.12kWh×n(n=12~15)
Nominal Capacity	100Ah	100Ah	100Ah
Nominal Voltage	51.2V×n(n=7~8)	51.2V×n(n=9~11)	51.2V×n(n=12~15)
Nominal Power Output	5.12kW×n(n=7~8)	5.12kW×n(n=9~11)	5.12kW×n(n=12~15)
Max.Power Output	5.12kW×n(n=7~8)	5.12kW×n(n=9~11)	5.12kW×n(n=12~15)
Recommend Charging Current	100A	100A	100A
Recommend Discharging Current	100A	100A	100A
Net Weight	83+12+47kg×n(n=7~8)	105+12+47kg×(n=9~11)	83×2+12+47kg×n(n=12~15)
Dimension(W*D*H)	594*558*1663mm	594*558*2152mm	594*558*1663mm*2(Two clusters)
Module Quantity and Configuration	7~8 Units in series	9~11 Units in series	12~15 Units in series

[1]HV51100F battery module need to be used with BDU100 control unit