

# INDOOR RACK-MOUNTED ESS



## Indoor Rack-Mounted ESS

Model	PowerPack-5.12HV-Pro
Electrical Parameters	
Battery Type	LiFePO4
Nominal Battery Energy [kWh]	5.12
Nominal Capacity [Ah]	100
Nominal Voltage [V]	51.2
General Data	
Net Weight [kg]	47
Dimension [W * D * H] [mm]	548 * 554 * 152.8
Charging Temperature Range [°C]	0 ~ 55
Discharging Temperature Range [°C]	-10 ~ 55
Communication	CAN / RS485
Cycle Life <sup>[1]</sup>	> 6000 Cycles
Degree of Protection	IP20
Cooling	Fan
Certification & Safety Standard	UN38.3







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

Model	PowerRack 1C Series		
	Electrical Parameters		
Rack Type	PowerRack-40.96kWh-H1-Pro	PowerRack-51.2kWh-H1-Pro	PowerRack-56.32kWh-H1-Pro
Battery Module Type	PowerPack-5.12HV-Pro	PowerPack-5.12HV-Pro	PowerPack-5.12HV-Pro
Nominal Battery Energy [kWh]	40.96	51.2	56.32
Nominal Capacity [Ah]	100	100	100
Nominal Voltage [V]	409.6	512	563.2
Operating Voltage Range [V]	358.4 ~ 460.8	448 ~ 576	492.8 ~ 633.6
Nominal Power Output [kW]	40.96	51.2	56.32
Max. Power Output [kW]	40.96	51.2	56.32
Recommend Charging Current [A]	100	100	100
Recommend Discharging Current [A]	100	100	100
General Data			
Battery Module Quantity	8 units	10 units	11 units
Net Weight [kg]	501	595	642
Dimension [W * D * H] [mm]	594 * 558 * 1663	594 * 558 * 2152	594 * 558 * 2152
Rack System Control Unit Type <sup>[1]</sup>	BDU-201	BDU-201	BDU-201
Module Quantity and Configuration	8 Units in series	10 Units in series	11 Units in series

[1] PowerPack-5.12HV-Pro battery module need to be used with BDU-201 control unit



### PowerRack 1C Series

-  Wide voltage range
-  High safety LFP & smart BMS
-  Expandable, capacity up to 76.8kWh per cluster
-  Modular design, easy installation
-  High system efficiency
-  Adaptive for various commercial scenarios