



INDOOR RACK-MOUNTED ESS

PowerRack 0.5C 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

Indoor Rack-Mounted ESS



Model	PowerPack-5.12HV
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]	43.5
Dimension [W * D * H] [mm]	481 * 535 * 140
Charging Temperature Range [°C]	0 ~ 55
Discharging Temperature Range [°C]	-10 ~ 55
Communication	CAN
Cycle Life ^[1]	> 6000 Cycles
Degree of Protection	IP20
Expansion	Up to 15 Units in Series
Certification & Safety Standard	UN38.3 / CE-EMC

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

Model	PowerRack 0.5C Series		
	Electrical Parameters		
Rack Type	PowerRack-35.8kWh-H1	PowerRack-51.2kWh-H1	PowerRack-56.32kWh-H1
Battery Module Type	PowerPack-5.12HV	PowerPack-5.12HV	PowerPack-5.12HV
Nominal Battery Energy [kWh]	35.84	51.2	56.32
Nominal Capacity [Ah]	100	100	100
Nominal Voltage [V]	358.4	512	563.2
Operating Voltage Range [V]	313.6 ~ 403.2	448 ~ 576	492.8 ~ 633.6
Nominal Power Output [kW]	21.5	30.72	33.79
Max.Power Output [kW]	35.84	51.2	56.32
Recommend Charging Current [A]	50	50	50
Recommend Discharging Current [A]	50	50	50
	General Data		
Battery Module Quantity	7 units	10 units	11 units
Net Weight [kg]	397.5	593	646.5
Dimension [W * D * H] [mm]	548 * 568 * 1412	548 * 568 * 2012	548 * 568 * 2012
Rack System Control Unit Type ^[1]	BDU-200	BDU-200	BDU-200
Module Quantity and Configuration	7 Units in series	10 Units in series	11 Units in series

[1] PowerPack-5.12HV battery module need to be used with BDU-200 control unit