







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