



ProStor RA1-51-280-HV

Rack-type LiFePO4 Energy Storage Battery System
43-200kWh



Highlights



Eco-Friendly

The whole module is non-toxic, non-polluting and environmentally friendly



Perfect Compatibility

Compatible to most inverter brands on the market, such as Growatt, Deye, Solis, Megarevo etc;



Easy Installation

Easy to install and adaptable to any installation angle



Flexible Configuration

Multi clusters in parallel for expanding capacity and power to MW



Smart Management

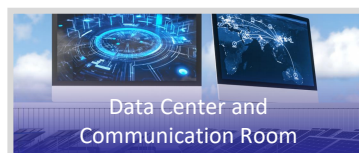
BMS can automatically manage charge & discharge state and balance current and voltage of each cell



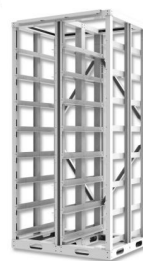
Remote Monitoring

Smart APP for monitoring and set-up, check working status of battery system anytime, anywhere

Application Scenarios



Capacity	43 kWh	57 kWh	71 kWh	86 kWh	100 kWh	114 kWh	129 kWh	143 kWh	157 kWh	172 kWh	186 kWh	200 kWh
Battery Module												
Module Rated Volatge(V)	51.2V											
Module Capacity(Ah)	280Ah											
Battery Cluster												
Configuration	3modules + 1BPU	4modules + 1BPU	5modules + 1BPU	6modules + 1BPU	7modules + 1BPU	8modules + 1BPU	9modules + 1BPU	10modules + 1BPU	11modules + 1BPU	12modules + 1BPU	13modules + 1BPU	14modules + 1BPU
System Rated Energy (kWh)	43	57.3	71.6	86	100.3	114.6	129	143.3	157.6	172	186.3	200.7
System Rated Voltage(V)	153.6	204.8	256	307.2	358.4	409	460.8	512	563.2	614.4	665.6	716.8
Charge Cut-off Voltage (V)	170.4	227.2	284	340.8	397.6	454.4	511.2	568	624.8	681.6	738.4	795.2
Discharge Cut-off Voltage (V)	132	176	220	264	308	352	396	440	484	528	572	616
Standard Charge Current (A)	100											
Maximum Charging/ Discharge Current (A)	200											
Cycle Life	≥6000 times @80% DOD, 25°C, 0.5C											
Methods Of Communication	RS232/RS485/CAN											
Charging Temperature	0~50°C											
Discharge Temperature	-10~50°C											
Storage Temperature	-20~60°C											
IP Protection	IP 20											
Series Function	Support 16 units in Series											
Rack Dimensions (L*W*Hmm)	550*780 *1190	550*780 *1440	550*780 *1690	1090*780 *1190	1090*780 *1190	1090*780 *1440	1090*780 *1440	1090*780 *1690	1090*780 *1690	1090*780 *1940	1090*780 *1940	1090*780 *2190
Approximate Weight (Kg)	408	534	660	796	912	1048	1164	1300	1416	1552	1668	1804
Certificate	UN38.3/MSDS/ROHS/CE/IEC											



Battery Module



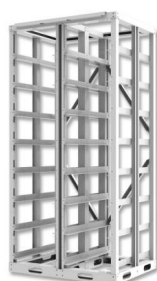
Battery Module	51.2V 280Ah
Capacity	14.33kWh
Battery Cell	3.2V 280Ah
Cell Quantity in Series(pcs)	16s
Charge Voltage(Vdc)	57.6V
Efficiency	98%
Depth of Discharge	90%
Dimension(W*D*H, mm)	483*245*792
Weight	116kg
Protection Class	IP20
Operation Life	10+ years

HV Control Module



Module	1000V 140A
System Operation Voltage (Vdc)	0-1000V
Nominal Current(A)	140
Self-consumption Power(W)	8
Dimension (W* D* H, mm)	450*460*177
Communication	RS232/RS485/CAN
Protection Class	IP20
Weight(KGS)	25
Operation Life	10+ years

Rack



Weight	5.5kg/layer
Layer	Number of battery module+control module