



ProStor RA1-51-314-HV

Rack-type LiFePO4 Energy Storage Battery System
48-241kWh



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

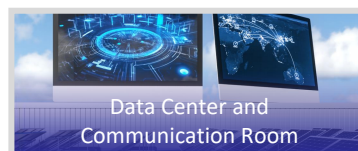
Application Scenarios



Commercial and Industrial
Energy Storage

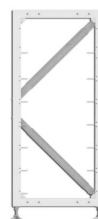


Peak Shaving and Valley Filling
Energy Storage



Data Center and
Communication Room

Capacity	48 kWh	64 kWh	80 kWh	96 kWh	112 kWh	128 kWh	144 kWh	160 kWh	176 kWh	193 kWh	209 kWh	225 kWh	241 kWh
Battery Module													
Module Rated Volatge(V)	51.2V												
Module Capacity(Ah)	314Ah												
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	15modules + 1BPU
System Rated Energy (kWh)	48.2	64.3	80.4	96.5	112.5	128.6	144.7	160.8	176.8	192.9	209	225.1	241.2
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	768
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	852
Discharge Cut-off Voltage (V)	132	176	220	264	308	352	396	440	484	528	572	616	660
Standard Charge Current (A)	100												
Maximum Charging/ Discharge Current (A)	160												
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	1090*780*2190
Approximate Weight (Kg)	408	534	660	796	912	1048	1164	1300	1416	1552	1668	1804	1920
Certificate	UN38.3/MSDS/ROHS/CE/IEC												



Battery Module



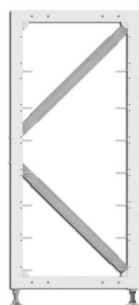
Battery Module	51.2V 314Ah
Capacity	16.076kWh
Battery Cell	3.2V 314Ah
Cell Quantity in Series(pcs)	16s
Charge Voltage(Vdc)	57.6V
Efficiency	98%
Depth of Discharge	90%
Dimension(W*D*H, mm)	483*245*792
Weight	135kg
Protection Class	IP20
Operation Life	10+ years

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