

ProStor RA2-51-280-HV

Rack-type LiFePO4 Energy Storage Battery System
86-215kWh



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

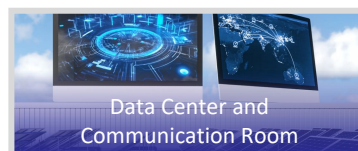
BMS can automatically manage charge & discharge state and balance current and voltage of each cell



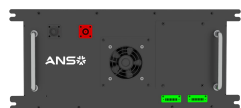
Remote Monitoring

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

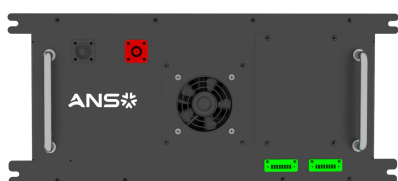
Application Scenarios



Capacity	86kW	100kWh	114kWh	129kWh	143kWh	158kWh	172kWh	186kWh	200kWh	215kWh
Battery Module										
Module energy (kWh)	14.33									
Module nominal voltage (V)	51.2									
Module Capacity(Ah)	280									
Battery Cluster										
Configuration	6modules + 1BPU	7modules + 1BPU	8modules + 1BPU	9modules + 1BPU	10modules + 1BPU	11modules + 1BPU	12modules + 1BPU	13modules + 1BPU	14modules + 1BPU	15modules + 1BPU
System nominal voltage (V)	86.01	100.35	114.68	129.02	143.36	157.69	172.03	186.36	200.7	215.04
System operating voltage (V)	307.2	358.4	409.6	460.4	512	563.2	614.4	665.6	716.8	768
System energy (kWh)	259.2~ 336	302.4~ 403.2	345.6~ 460.8	388.8~ 518.4	432~ 576	475.2~ 633.6	518.4~ 691.2	561.6~ 748.8	604.8~ 806.4	648~ 864
Recommended Charge/Discharge Current (A)	140									
Max Charge/Discharge Current (A)	140									
Working temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C									
Storage temperature (°C)	0°C~35°C									
Recommend depth of discharge	90%									
Cycle life	≥6000 times @80% DOD, 25°C, 0.5C									
Communication port	CAN/RS485									
Humidity	5~85%RH									
Altitude	<2000 m									
IP rating of enclosure	IP20									
Dimension (W*D*H, mm)	550*776*1 985	550*776*2 250	550*780*1 450	555*776*1 700	550*780*1 690	555*776*1 700	550*776*1 960	550*776*1 960	550*776*2 250	550*776*2 250
Weight approximate (kg)	850	1000	1110	1450	1400	1560	1708	1833	1978	2100
Certificates	UN38.3/MSDS/ROHS/CE/IEC									



Battery Module



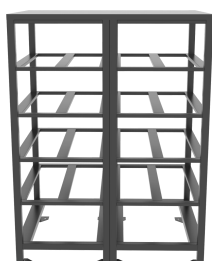
Battery Module	51.2V 280Ah
Capacity	14.77kWh
Battery Cell	3.2V 280Ah
Cell Quantity in Series(pcs)	16s
Charge Voltage(Vdc)	56V
Efficiency	98%
Depth of Discharge	90%
Dimension(W*D*H, mm)	779*460*230
Weight	116kg
Protection Class	IP20
Operation Life	10+ years

HV Control Module



Module	1000V 120A
Max Voltage	1000V
Max Charge&Discharge	200A
Display	LCD
Dimension (W* D* H, mm)	620*460*222
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