



ProStor RA2-51-100-HV

Rack-type LiFePO4 Energy Storage Battery System
20.48-51.2kWh



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

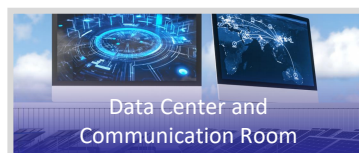
BMS can automatically manage charge & discharge state and balance current and voltage of each cell



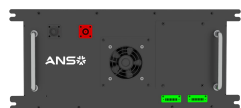
Remote Monitoring

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

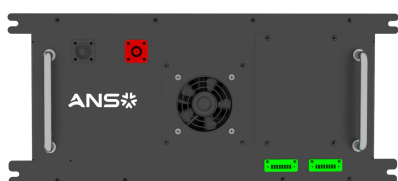
Application Scenarios



Capacity	20kWh	26kWh	31kWh	36kWh	41kWh	46kWh	51kWh
Battery Module	LiFePO4						
Module energy (kWh)	5.12						
Module nominal voltage (V)	51.2						
Module Capacity(Ah)	100						
Battery Cluster							
Configuration	4modules + 1BPU	5modules + 1BPU	6modules + 1BPU	7modules + 1BPU	8modules + 1BPU	9modules + 1BPU	10modules + 1BPU
System nominal voltage (V)	204.8	256	307.2	358.4	409.6	460.8	512
System operating voltage (V)	172.8~224	215~280	259.2~336	302.4~392	345.6~448	388.8~504	432~560
System energy (kWh)	20.48	25.6	30.72	35.84	40.96	46.08	51.2
Recommended Charge/Discharge Current (A)	50						
Max Charge/Discharge Current (A)	100						
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	CAN2.0/RS485/WIFI						
Humidity	5~85%RH						
Altitude	<2000 m						
IP rating of enclosure	IP20						
Dimension (W*D*H, mm)	538*492*791	538*492*941	538*492*1091	538*492*1241	538*492*1391	538*492*1541	538*492*1691
Weight approximate (kg)	195	240	285	330	375	420	465
Certificates	UN38.3/MSDS/ROHS/CE/IEC						



Battery Module



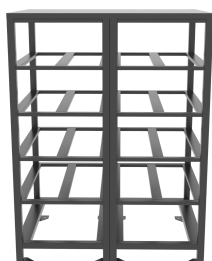
Battery Module	51.2V 100Ah
Capacity	5.12kWh
Battery Cell	3.2V 100Ah
Cell Quantity in Series(pcs)	16s
Charge Voltage(Vdc)	56V
Efficiency	98%
Depth of Discharge	90%
Dimension(W*D*H, mm)	450*460*133
Weight	48kg
Protection Class	IP20
Operation Life	10+ years

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