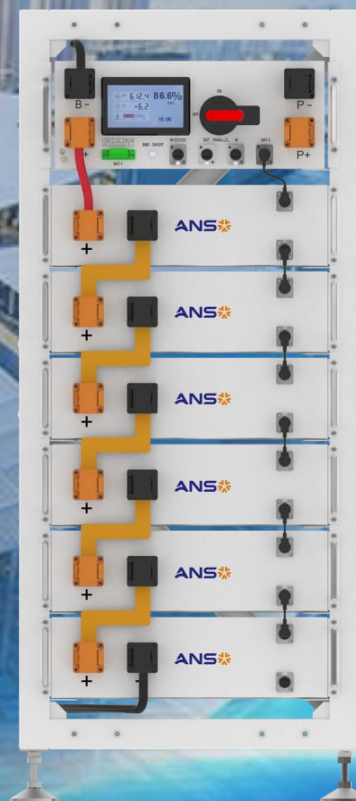




ProStor RA1-51-100-HV

Rack-type LiFePO4 Energy Storage Battery System
20.48-61.44kWh



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

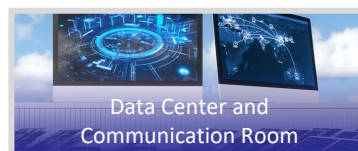
BMS can automatically manage charge & discharge state and balance current and voltage of each cell



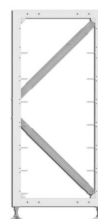
Remote Monitoring

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	56kWh	61kWh
Battery Module									
Module Rated Volatge(V)	51.2V								
Module Capacity(Ah)	100Ah								
Battery Cluster									
Configuration	4modules + 1BPU	5modules + 1BPU	6modules + 1BPU	7modules + 1BPU	8modules + 1BPU	9modules + 1BPU	10modules + 1BPU	11modules + 1BPU	12modules + 1BPU
System Rated Energy (kWh)	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Rated Voltage(V)	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Charge Cut-off Voltage (V)	227.2	284	340.8	397.6	454.4	511.2	568	624.8	681.6
Discharge Cut-off Voltage (V)	176	220	264	308	352	396	440	484	528
Standard Charge Current (A)	60								
Maximum Charging/ Discharge Current (A)	100								
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)	560*510* 1210	560*510* 1210	560*510* 1210	560*510* 1638	560*510* 1638	560*510* 1780	560*510* 1780	560*510* 2060	560*510* 2060
Approximate Weight (Kg)	240	280	325	375	420	475	520	575	620
Certificate	UN38.3/MSDS/ROHS/CE/IEC								



Battery Module



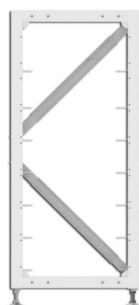
Battery Module	51.2V 100Ah
Capacity	5.12kWh
Battery Cell	3.2V 100Ah
Cell Quantity in Series(pcs)	16s
Charge Voltage(Vdc)	57.6V
Efficiency	98%
Depth of Discharge	90%
Dimension(W*D*H, mm)	450*460*133
Weight	48kg
Protection Class	IP20
Operation Life	10+ years

HV Control Module



Module	1000V 120A
System Operation Voltage (Vdc)	0-1000V
Nominal Current(A)	120
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