

High Voltage Rack Design

R1-HV-20.48~51.2kWh Series



Model	R1-HV-20.48	R1-HV-25.6	R1-HV-30.72	R1-HV-35.84	R1-HV-40.96	R1-HV-46.08	R1-HV-51.2
Material System	Lithium Iron Phosphate						
Module Nominal Voltage (V)	51.2						
Module Capacity (Ah)	100						
Unit Model/Configuration	3.2V100Ah/64S 1P	3.2V100Ah/80S 1P	3.2V100Ah/96S 1P	3.2V100Ah/112 S1P	3.2V100Ah/128 S1P	3.2V100Ah/144 S1P	3.2V100Ah/160 S1P
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
Charge/Discharge Current(A)	50						
Charge/Discharge Current(A) Max	100						
Operating Temperature	Charging: 0°C~55°C; Discharging: -20°C~55°C						
Communication	CAN/RS485/WIFI						
Humidity	5~85%RH Humidity						
Altitude	≤2000m						
IP Class	IP20						
Dimensions (L*W*H, mm)	538*492*791	538*492*941	538*492*1091	538*492*1241	538*492*1391	538*492*1541	538*492*1691
Approximate Weight (kg)	195	240	285	330	375	420	465
Install Type	Rack Mounting						
Storage Temperature (°C)	0°C~35°C						
Recommended Discharge Depth	90%						
Cycle Life	25±2°C, 8000 cycles@80%DOD,0.5C						



Convenient

Quick installation, standard of 19-inch embedded designed module is comfortable for installation and maintenance.



Safe and Reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life. The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.



Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.



Eco-Friendly

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



Flexible Configuration

Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, wifi upgrade (optional), remote upgrade (Compatible with Deye inverter).



Wide Temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.