

PMES-RACKH

Indoor High Voltage Solutions



More Flexible HV battery Solutions

This rack-mounted battery system is designed for high-voltage applications such as commercial and industrial storage, microgrids, and UPSs.

Each battery module operates at 57.6V 135Ah, with scalable capacity through series and parallel configurations to meet your project's energy needs.



38 kWh - 1,866 kWh



**Support 5~15
packs**



0.5 C



288 V - 864 V

Model	HRACK 5	HRACK 6	HRACK 7	HRACK 8	HRACK 9	HRACK 10
BatteryModule	57.6V 135Ah 7.776kWh					
Rated Voltage(V)	288.0	345.6	403.2	460.8	518.4	576.0
Rated Capacity(Ah)	135	135	135	135	135	135
Cell Model(LFP-3.2V)(Ah)	135	135	135	135	135	135
System Configuration	90S1P	108S1P	126S1P	144S1P	162S1P	180S1P
BatterySingleBoxNumber	5pack+ 1 control box	6pack+ 1 control box	7pack+ 1 control box	8pack+ 1 control box	9pack+ 1 control box	10pack+ 1 control box
RatePower(kWh)	38.88	46.66	54.43	62.21	69.98	77.76
Charge cut-off Voltage(V)	319.5	383.4	447.3	511.2	575.1	639.0
Discharge Cut-off Voltage(V)	256.5	307.8	359.1	410.4	461.7	513.0
Recommended Current(A)	68	68	68	68	68	68
Maximum Charging Current(A)	120	120	120	120	120	120
Maximum Discharging Current(A)	120	120	120	120	120	120
Dimension(L*W*H)(MM)	590*713*1118	590*713*1268	590*713*1418	590*713*1568	590*713*1718	590*713*1868
Host Software Protocol	CANBUS (Baudrate @250Kb/s)					
Operation Temperature Range	Charge: 0~55°C					
	Discharge: -20~55°C					
Storage Temperature	-10~40°C					
Cycle Life(25°C)	6000 cycles @90%DOD					
Protection Level	IP20					
Storage Humidity	10%RH~90%RH					
Internal Impedance	≤1Ω					
Warranty	10 years					
Transportation	UN38.3					
Battery Life	≥15 years					
Weight	Base: 18kg Single Pack: 68kg High voltage Box: 20kg					

Model	HRACK 11	HRACK 12	HRACK 13	HRACK 14	HRACK 15
BatteryModule	57.6V135Ah7.776kWh				
Rated Voltage(V)	633.6	691.2	746.8	806.4	864
Rated Capacity(Ah)	135	135	135	135	135
CellModel(LFP-3.2V)(Ah)	135	135	135	135	135
System Configuration	198S1P	216S1P	234S1P	252S1P	270S1P
BatterySingleBoxNumber	11 pack+ 1 control box	12 pack+ 1 control box	13 pack+ 1 control box	14 pack+ 1 control box	15 pack+ 1 control box
RatePower(kWh)	85.5	93.3	101.08	108.86	116.64
Charge cut-off Voltage(V)	702.9	766.8	830.7	887.5	944.3
Discharge Cut-off Voltage(V)	564.3	615.6	666.9	712.5	758.1
Recommended Current(A)	68	68	68	68	68
Maximum Charging Current(A)	120	120	120	120	120
Maximum Discharging Current(A)	120	120	120	120	120
Dimension(L*W*H)(MM)	590*713*2018	590*713*2168	1180*713*1268	1180*713*1418	1180*713*1568
Host Software Protocol	CANBUS (Baudrate@250Kb/s)				
Operation Temperature Range	Charge:0~55°C				
	Discharge:-20~55°C				
Storage Temperature	-10~40°C				
CycleLife(25°C)	6000cycles@90%DOD				
Protection Level	IP20				
Storage Humidity	10%RH~90%RH				
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Warranty	10years				
Transportation	UN38.3				
BatteryLife	≥15years				
Weight	Base:18kg SinglePack:68kg HighvoltageBox:20kg				

Connection Type -1



Capacity

38.88kWh – 93.3kWh



7.8 kWh

For each battery module



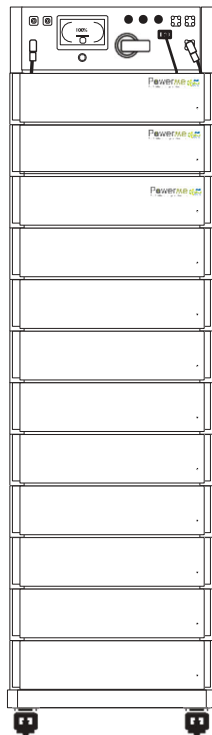
Voltage

256.5V – 766.8V



Max. 12

Batteries in a group



Connection Type -2



Capacity

38.88kWh – 116.64kWh



7.8 kWh

For each battery module



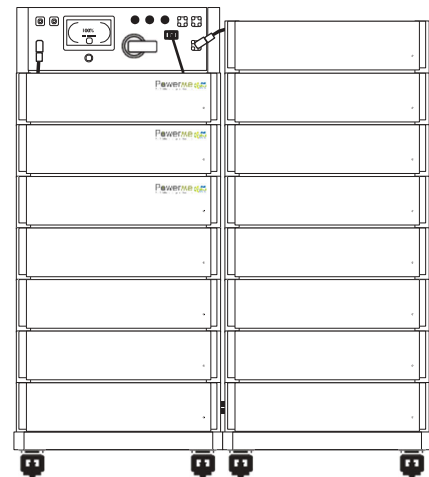
Voltage

256.5V – 944.3V



Max. 15

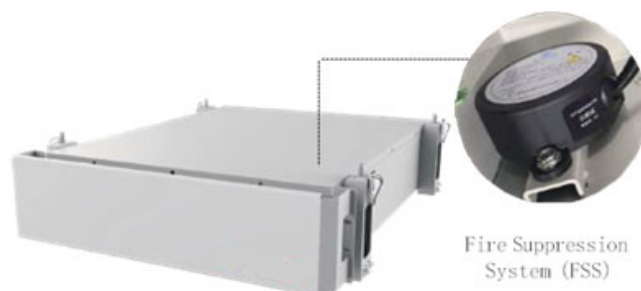
Batteries in a group



High Voltage BMU	
Controller Working Voltage	80-1000VDC
System Operation Voltage	102.6-639.0 VDC
Max.ContinuousChargeCurrent	135A
Max. Continuous Discharge Current	135A
Dimension (W*D*H, MM)	580*713*170
Weight	20kg
Communication Protocol	CANBUS (Baudrate@500Kb/s or @250Kb/s) /ModbusRTU (@9600b/s)
OperationLife (Year)	15+
OperationTemperature (°C)	-20~55
Ingress Protection	IP20



Integrated
WIFI/Bluetooth



Fire Suppression
System (FSS)

Higher Energy Density

- Each module utilizes a capacity of 7.7kWh, which is a higher energy density than a 5kWh battery of the same size.

Compact Size Design

- Each module is designed with a 3U rack battery to meet demanding space requirements.

Higher Conversion Efficiency

- Compared to LV systems, HV systems can reduce energy loss by lowering the current value with less energy loss.

Fast Charging And Discharging

- The HV Pack is capable of charging and discharging up to 0.5c, making it ideal for commercial and industrial loads.

High Security

- Using LiFePO4 as the storage core and multi-level control for expansion ensures the safety of each battery function.



PowerMe

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VIA PABLO PICASSO 2
LEGNANO

