

ESS-GRID HV PACK

Flexible And Scalable High-voltage ESS Solutions



7.8kWh - 466kWh
115.2V-800V

ESS-GRID HV PACK is a rack-mounted battery system designed for high-voltage applications (three-phase residential systems, industrial and commercial energy storage, microgrids & UPS), each pack is 57.4V 135Ah, by series connection, up to 800V.



Modular and scalable



Maximum 5 in parallel



6000 cycle life @90% DOD



10-year warranty & technical support



30 days delivery period



For on-grid and off-grid



UL standard battery pack



Compatible with multiple inverters



Safe and reliable LiFePO4

Model	HV PACK 5	HV PACK 6	HV PACK 7	HV PACK 8	HV PACK 9	HV PACK 10
Battery Module	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
Battery Single Box Number	5 pack+ 1 control box	6 pack+ 1 control box	7 pack+ 1 control box	8 pack+ 1 control box	9 pack+ 1 control box	10 pack+ 1 control box
Rate Power(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)	80	80	80	80	80	80
Maximum Discharging Current(A)	80	80	80	80	80	80
Dimension(L*W*H)(MM)	586*713*1071	586*713*1226	586*713*1381	586*713*1536	586*713*1691	586*713*1846
Host Software Protocol	CAN BUS (Baud rate @250Kb/s)					
Operation Temperature Range	Charge:0~55°C					
	Discharge:-20~55°C					
Cycle Life(25°C)	6000 cycles @90% DOD					
Protection Level	IP20					
Storage Temperature	-10°C~40°C					
Storage Humidity	10%RH ~90%RH					
Internal Impedance	≤1Ω					
Warranty	10 years					
Transportation	UN38.3/IEC62619					
Battery Life	≥15 years					
Weight	Base: 18kg Single Pack: 68kg High voltage Box: 20kg					



High Voltage Box Parameters	
Controller Working Voltage	80-800 VDC
System Operation Voltage	102.6-639.0 VDC
Max. Continuous Charge Current	135A
Max. Continuous Discharge Current	135A
Self-consumption	<18W
Dimension (W*D*H, MM)	580*713*170
Weight	20kg
Communication Protocol	CAN BUS (Baud rate @500Kb/s or @250Kb/s)/Modbus RTU(@9600b/s)
Operation Life (Year)	15+
Operation Temperature(°C)	-20~55
Ingress Protection	IP20