

HP-SG



◆ Convenient

The fast installation standard of the 3U embedded design module ensures comfortable 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 connected in parallel to expand capacity and power.

◆ Wide temperature

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

Technical Data

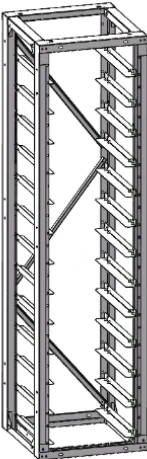
Model		HP-SG		
Main Parameter				
Cell Chemistry		LiFePO4		
Module Energy(kWh)		5.12		
Module Nominal Voltage (V)		51.2		
Module Capacity(Ah)		100		
Battery Module Qty in series. (Optional)		6 (Min)	8 (Standard)	12 (MAX)
System Nominal Voltage (V)		307.2	409.6	614.4
System Operating Voltage (V)		268.8~345.6	358.4~460.8	537.6~691.2
System Energy (kWh)		30.72	40.96	61.44
System Usable Energy(kWh)		27.65	36.86	55.29
Charge/Discharge Current (A)	Recommend	50		
	Max	100		
	Peak (2 mins, 25°C)	125		
Working Temperature(°C)		Charge: 0~55/Discharge: -20~55		
Status Indicator		Green: Battery High Voltage Power On Red: Battery System Alarm		
Communication Port		CAN2.0/RS485		
Humidity		5~85%RH		
Altitude		≤2000m		
IP Rating of Enclosure		IP20		
Dimension (W/D/H,mm)		550*590*1500		550*590*2100
Weight Approximate (kg)		335	445	645
Installation Location		Rack Mounting		
Storage Temperature(°C)		0~35		
Recommend Depth of Discharge		90%		
Cycle Life		25±2°C, 0.5C/0.5C, EOL70%≥6000		
Warranty		10years		
Certification		CE/IEC62619/ UN38.3		

- 1 DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- 2 The current is affected by temperature and SOC.
- 3 The warranty is due whichever reached first of warranty period or life cycle power.

System Components

Model		Description
HVB750V/100A		High Voltage Battery cluster control box
Operating Voltage	120 ~ 750Vdc	
Nomina Charge/Discharge Current	100A	
Max.Charge/Discharge Current	125A	
DC Input Rating	12±2%/4.15A	
Operating Temperature Range	-20~55°C	
Ingress Protection	IP20	
Dimension (W/D/H)	442*540*132mm	
Weight Approximate	18kg	
BOX-5.12		5.12 kwh battery module
Battery Type	LiFePO4(LFP)	
Nominal Voltage	51.2Vdc	
Nominal Capacity	100Ah	
Nominal Energy	5.12kWh	
Nominal Charge/Discharge Current	100A	
Max.Charge/Discharge Current	125A	
Charge Temperature	0~55°C	
Discharge Temperature	-20°C ~ 55°C	
Storage Temperature	0°C ~ 35°C	
Ingress Protection	IP20	
Dimension (W/D/H)	442*540*132mm	
Weight Approximate	45kg	

System Components

Model	Description	
3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box	
Dimension (W/D/H) Weight Approximate	550*590*2100mm 85kg	
3U-LRACK(Optional)	Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box	
Dimension (W/D/H) Weight Approximate	550*590*1500mm 65kg	