

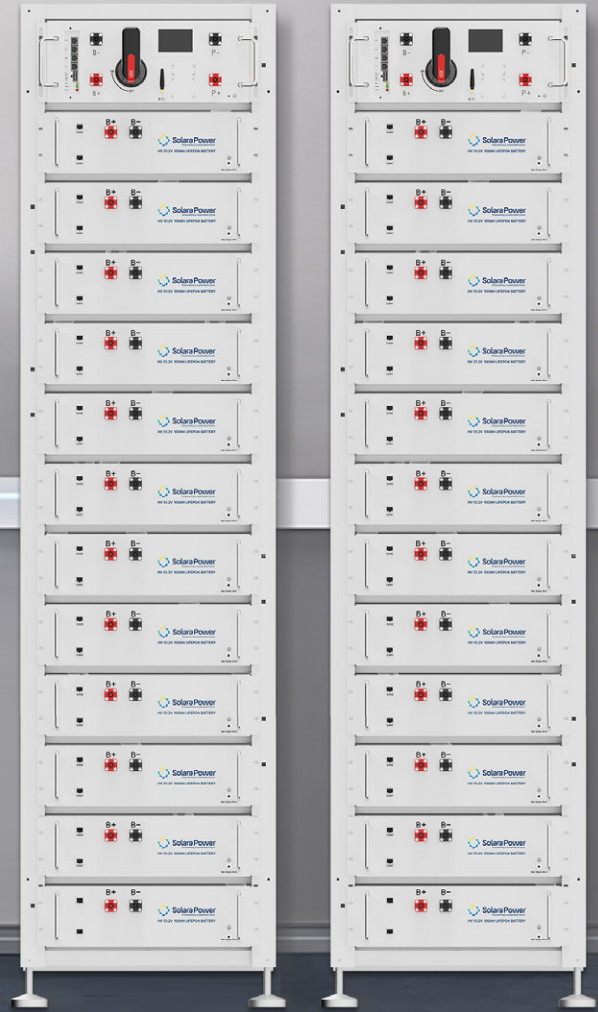
Modular high-voltage battery system

Residential & Commercial ESS

HV51100 5.12 kWh Module

SP-R20~R60K

-  **UL1973**
-  **UL9540**
-  **UL9540A**



>6500
Cycles

10-year
Warranty

20 kWh ~ 60 kWh
Flexible Expansion

32 units
Parallel connection



Safe and reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life



Flexible configuration

Multiple battery modules can be in parallel for expanding capacity and power



Convenient

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



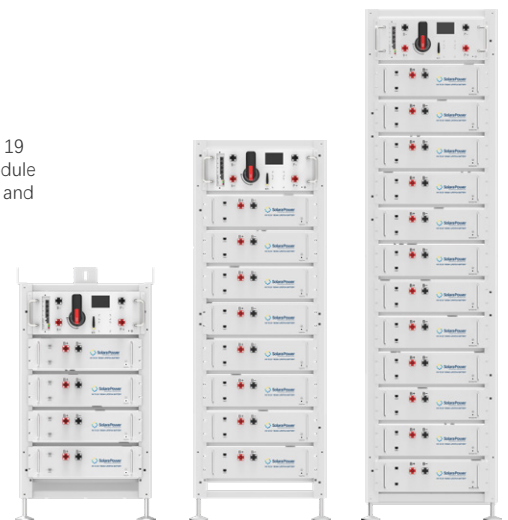
Intelligent BMS

protection functions including over discharge, over charge, over current and over high or low temperature



Applications

Residential energy storage
Commercial and industrial energy management
Emergency power backup
Off-grid power solutions
Renewable energy integration

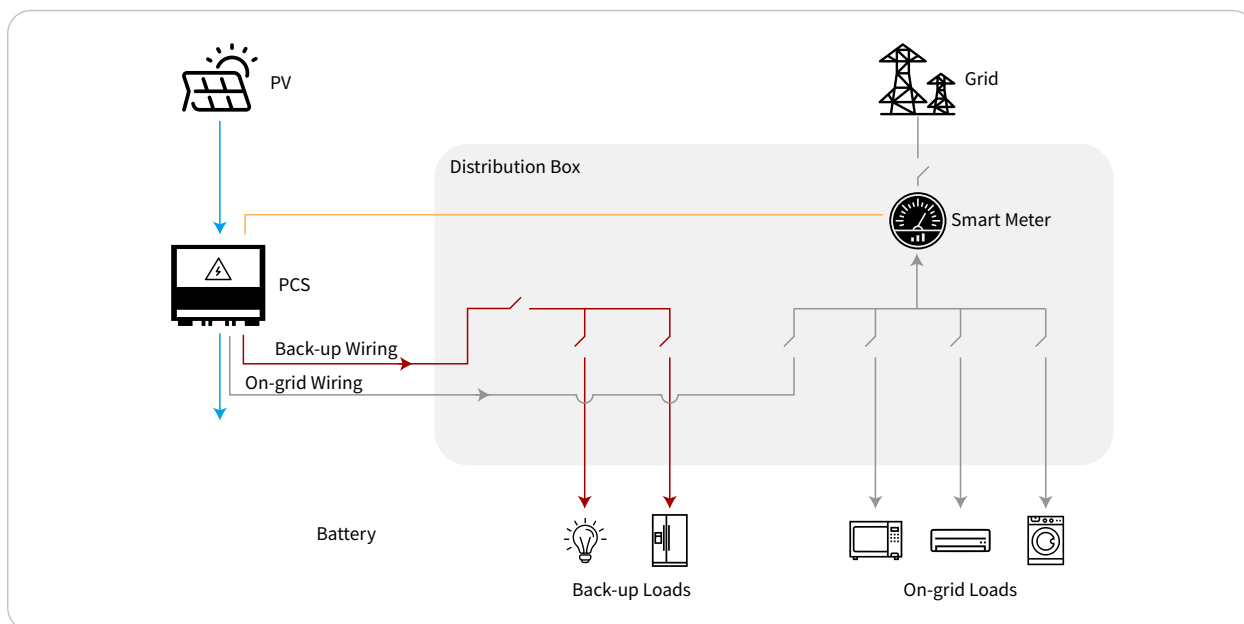


20 kWh

40 kWh

60 kWh

Datasheet



Model	SP-R20K	SP-R25K	SP-R30K	SP-R35K	SP-R40K	SP-R45K	SP-R50K	SP-R55K	SP-R60K
Nominal Capacity (kWh)	20.48	25.60	30.72	35.84	40.96	46.08	51.20	56.32	61.44
Cell Matching	64S1P	80S1P	96S1P	112S1P	128S1P	144S1P	160S1P	176S1P	192S1P
Nominal Voltage (V)	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Working Voltage Range (V)	179.2 ~ 230.4	224 ~ 288	268.8 ~ 345.6	313.6 ~ 403.2	358.4 ~ 460.8	403.2 ~ 518.4	448 ~ 576	492.8 ~ 633.6	537.6 ~ 691.2
Weight (kg)	201.4	268	309.6	351.2	392.8	434.4	499	540.6	582.2
Dimension (WxDxH mm)	553*503 *1,011	553*503 *1,620	553*503 *1,620	553*503 *1,620	553*503 *1,620	553*503 *2,230	553*503 *2,230	553*503 *2,230	553*503 *2,230
Battery Type	LFP (LiFePO4)								
Nominal Working Current	100 A								
Maximum Continuous Discharge Rate2 (kW)	20.8	26	31.2	36.4	41.6	46.8	52	57.2	62.4
Communication Port	CAN / TCP / IP								
Working Temperature Range	Charge: 0-55°C / Discharge: -20-60°C								
Waterproof	IP20								
Installation Method	Floor-standing								
Cycle Life	6,500								
Warranty Period	10-year								
Peak Charge/Discharge Current (@25°C, 5S)	125 A								
Discharge Rate of Module	≤ 3.5% / month / @25°C								
Parallel Connection	32 units in parallel								

If the size and parameters of the product are changed, the latest information will prevail without further notice.