

# HP-SG<sub>HV</sub> Series

## Embedded Household Energy Storage Lithium Battery System

HP-SG high voltage series uses 3U standard modular design, with multi-module in series and support multi-cluster in parallel. It's suitable for various application scenarios as villa, farm, small C&I power supply, and provides a complete set of green, low carbon and reliable energy solutions.

30.72 ~61.44 kWh



### Minimalist Design

3U standard modular, fast installation;  
Easy maintenance and expansion



### Ultra-Long life

Ultra-long cycle cell, design life of 15 years,  
The system can reach 6000 cycles



### Intelligent Management

The system adopts a three-level architecture.  
Automatically identify the number and  
address of modules, configure LCD



### High Security





Shoto's self-produced 100Ah  
LFP Prismatic Cell, which is highly safe and reliable.



### Flexible Configuration

Multi-module series, to meet the voltage platform,  
capacity level and power requirements

## Technical Parameters

Model	HP-SG			
				
Battery Module	HVC051100M02[ 5.12 kWh ]			
Cell Type	100Ah LFP Prismatic Cell			
Number of Modules	6 [Minimum]	8 [Normal]	10 [Normal]	12 [Max]
System Nominal Energy <sup>[1]</sup>	30.72kWh	40.96kWh	51.2kWh	61.44kWh
Available System Nominal Energy	27.6kWh	36.8kWh	46.1kWh	55.2kWh
Nominal Voltage	307.2V	409.6V	512V	614.4V
Max. Output Power	27.6kW	36.8kW	46.1kW	55.2kW
Operating Voltage Range	268.8~345.6V	358.4~460.8V	448~576V	537.6~691.2V
Max. Charging Current	50A	50A	50A	50A
Max. Discharge Current	100A	100A	100A	100A
<b>General</b>				
Dimensions [W*H*D] <sup>[2]</sup>	550*1188*590mm	550*1492*590mm	550*1796*590mm	550*2100*590mm
Weight <sup>[3]</sup>	300kg	385kg	480kg	565kg
Communication	CAN			
Installation	Floor			
Enclosure Rating	IP20			
Operating Temperature <sup>[4]</sup>	Charge: 0~50°C; Discharge: : -5~50°C; Recommended: 15~35°C			
Operating Humidity	5%~85%[Non-Condensing]			
Cooling Mode	Natural Cooling			
Operating Altitude	≤2000m			
Scalability	3 Clusters			
<b>Safety/Standards</b>				
Certification	IEC62619、CE-EMC、UN 38.3			
Matching Inverter <sup>[5]</sup>	Deye、Solis、Megarevo、Atess、Solinteg、Sinexcel、Aiswei			

\* Note:

[1] Test environment: 0.2C charge and discharge @25°C&100%DOD; [2] Mounting frame reference dimensions; [3] Weight tolerance ±3%, subject to the actual product; [4] -5°C~10°C, the system can reduce power consumption by 15%; [5] Inverter brands are not regularly updated

\* Declaration:

This information is only a brief description of the product performance, if you need the latest product information, please contact our business personnel or log in to the official website to download.