

HP-SG_{HV} 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

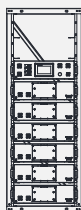
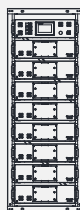
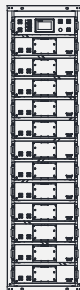
Shoto's self-produced 100Ah
LFP Prismatic Cell, which is highly safe and reliable.



Flexible Configuration

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

Technical Parameters

Model	HP-SG			
				
Battery Module	HVC051100M05[5.12 kWh]			
Cell Type	100Ah LFP Prismatic Cell			
Number of Modules[Optional]	6 [Minimum]	8 [Normal]	10 [Normal]	12 [Max]
System Nominal Energy ^[1]	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
General				
Dimensions [W*H*D] ^[2]	550*1500*590mm	550*1500*590mm	550*2100*590mm	550*2100*590mm
Weight ^[3]	335kg	440kg	550kg	635kg
Communication	CAN			
Installation	Floor			
Enclosure Rating	IP20			
25°C Cycle Life	≥6000Cycles@80%DOD&70%EOL			
Operating Temperature ^[4]	Charge: -5~50°C; Discharge: : -20~50°C; Recommended: 15~35°C			
Operating Humidity	5%~95%[Non-Condensing]			
Cooling Mode	Natural Cooling			
Operating Altitude	≤4000m			
Safety/Standards				
Certification	UL1973[cell], UN 38.3			
Matching Inverter ^[5]	Deye, Solis, Megarevo, Ateess, Solinteg, Sinexcel, Aiswei, Gsstes, Invt, Hypontech			

* 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.

