

# HP10-Box 5 Pro LV Series

## Stacked Household Lithium Battery System

HP10-Box5 Pro series adopts industrial aesthetic and N+1 stackable design. The system is composed of 100Ah modules, supports a maximum of 20 parallel groups, and the capacity can be expanded to 102kWh. Matched with main stream brands of inverters, the system can be applied to grid-connected, off-grid, photovoltaic and all kinds of green and low-carbon applications of household ESS.

5.1 | 10.2 | 15.3 | 20.4 kWh



### Industrial Aesthetics

5.1 kWh for one system, industrial aesthetic design, stackable/wall-mounted/vertical installation; optional color as gray or white.



### Wide Compatibility

The system matches 20+ brands of mainstream inverters; Support Bluetooth, mobile APP can monitor the battery status in real time;



### High Security

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



### Ultra-Long Life

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



### High Scalability

Optional expansion functions: anti-theft, fire protection, LCD monitoring and display module, etc.

# Technical Parameters

Model	HP10-Box5 Pro	HP10-Box10 Pro	HP10-Box15 Pro	HP10-Box20 Pro
Battery Module	Box5Pro*N			
Cell Type	100Ah LFP Prismatic Cell			
Number of Modules	1	2	3	4
Nominal Voltage	51.2V			
Operating Voltage Range	45.0~56.4V			
System Nominal Energy <sup>[1]</sup>	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Available System Nominal Energy	4.86kWh	9.72kWh	14.6kWh	19.45kWh
Max. Output Power	5kW	10kW	15kW	20kW
Peak Output Power	5.4kW, 10s	10.5kW, 10s	15.5kW, 10s	20.0kW, 10s
Max. Charging Current	50A	100A	150A	200A
Max. Discharge Current	100A	180A	270A	270A
Charge and Discharge Efficiency	≥97%			
<b>Overview</b>				
Dimensions [W*H*D] <sup>[2]</sup>	580*250*440mm	580*400*440mm	580*550*440mm	580*700*440mm
Weight <sup>[3]</sup>	46kg	105kg	152kg	200kg
Communication	CAN/RS485			
Installation	Stack/Wall/Stand			
Enclosure Rating	IP20			
25°C Cycle Life	≥6000 Cycles @80%DOD&70%EOL			
Operating Temperature <sup>[4]</sup>	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			
<b>Safety/Standards</b>				
Certification	UL1973、IEC62619、IEC62477、CE-EMC、VDE2510-50、CEI0-21、UKCA、UN38.3			
Matching Inverter <sup>[5]</sup>	Deye、Growatt、Goodwe、Victron、Sofar、SMA、SRNE、LUX、Solis、TBB、Soruide、Megarevo、Sungrow、Afore、Socolar、SMK solar、Voltronic			

\* Note:

[1] Test environment: 0.2C charge and discharge @25°C&100%DOD; [2] The size of a single battery, not including the base, more than 2 including the base;

[3] Weight error ±2kg; [4] -5°C-10°C, power reduction of 10%-15%; [5] The matching inverter brand is updated periodically

\* 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.