

# 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%   |   |   |   |
| Overview                             |  |   |   |   |
| 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                     | IP21   |   |   |   |
| 25℃ Cycle Life                       | ≥6000 Cycles @80%DOD&70%EOL  |   |   |   |
| Operating Temperature <sup>[4]</sup> | Charge: -5~50℃; Discharge: -20~50℃; Recommended: 15~35℃  |   |   |   |
| Operating Humidity                   | 5%~95%[Non-Condensing]   |   |   |   |
| Cooling Mode                         | Natural Cooling  |   |   |   |
| Operating Altitude                   | ≤4000m   |   |   |   |
| Safety/Standards                     |  |   |   |   |
| 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、Sacular、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.