



# BATTERY-BOX HVE



## KEY FEATURES



### Space Saving

One of the thinnest batteries in the world  
with a thickness of only 140mm  
Saving more space



### Intelligence

Compatible with BYD inverters and APP,  
integrated system for remote diagnosis and OTA



### Ultra Safety

LFP expertise since 2002  
1M+ systems in 100+ countries  
Safety design from cell to pack



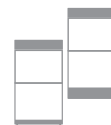
### Flexibility

2 varied capacity modules  
Flexible 12 capacity options



### Easy Installation

Patented internal plug connection  
Automatic configuration



### Convenience

Wall- & floor-mounted  
installation options

## BATTERY-BOX HVE



HVE 4.2 / 6.4



HVE 23.5



3 x HVE 23.5

Maximum capacity of

# 70.74 kWh

## TECHNICAL PARAMETERS HVE

|                              |        |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PERFORMANCE                  | HVE 6.4                                                                                 | HVE 8.5                                                                           | HVE 10.7                                                                          | HVE 12.8-1                                                                         | HVE 12.8-2                                                                          | HVE 15.0                                                                            |
| Battery Module               | HVE 4.2 Module (4.29 kWh, 76.8 V, 42.6 kg), HVE 6.4 Module (6.43 kWh, 115.2 V, 61.6 kg) |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Number of Modules            | 1 (6)                                                                                   | 2 (4+4)                                                                           | 2 (4+6)                                                                           | 2 (6+6)                                                                            | 3 (4+4+4)                                                                           | 3 (4+4+6)                                                                           |
| Usable Energy <sup>[1]</sup> | 6.43 kWh                                                                                | 8.58 kWh                                                                          | 10.72 kWh                                                                         | 12.86 kWh                                                                          | 12.87 kWh                                                                           | 15.01 kWh                                                                           |
| Nominal Voltage              | 115.2 V                                                                                 | 153.6 V                                                                           | 192.0 V                                                                           | 230.4 V                                                                            | 230.4 V                                                                             | 268.8 V                                                                             |
| Operating Voltage            | 90 ~ 131.4 V                                                                            | 120 ~ 175.2 V                                                                     | 150 ~ 219 V                                                                       | 180 ~ 262.8 V                                                                      | 180 ~ 262.8 V                                                                       | 210 ~ 306.6 V                                                                       |
| Dimensions(H/W/D)(mm)        | 794 x 660 x 140                                                                         | 986 x 660 x 140                                                                   | 1139 x 660 x 140                                                                  | 1292 x 660 x 140                                                                   | 1331 x 660 x 140                                                                    | 1484 x 660 x 140                                                                    |
| Weight                       | 73.1 kg                                                                                 | 96.7 kg                                                                           | 115.7 kg                                                                          | 134.7 kg                                                                           | 139.3 kg                                                                            | 158.3 kg                                                                            |

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              | HVE 17.1-1                                                                        | HVE 19.2                                                                          | HVE 17.1-2                                                                        | HVE 19.3                                                                           | HVE 21.4                                                                            | HVE 23.5                                                                            |
| Number of Modules            | 3 (4+6+6)                                                                         | 3 (6+6+6)                                                                         | 4 (4+4+4+4)                                                                       | 4 (4+4+4+6)                                                                        | 4 (4+4+6+6)                                                                         | 4 (4+6+6+6)                                                                         |
| Usable Energy <sup>[1]</sup> | 17.15 kWh                                                                         | 19.29 kWh                                                                         | 17.16 kWh                                                                         | 19.30 kWh                                                                          | 21.44 kWh                                                                           | 23.58 kWh                                                                           |
| Nominal Voltage              | 307.2 V                                                                           | 345.6 V                                                                           | 307.2 V                                                                           | 345.6 V                                                                            | 384.0 V                                                                             | 422.4 V                                                                             |
| Operating Voltage            | 240 ~ 350.4 V                                                                     | 270 ~ 394.2 V                                                                     | 240 ~ 350.4 V                                                                     | 270 ~ 394.2 V                                                                      | 300 ~ 438 V                                                                         | 330 ~ 481.8 V                                                                       |
| Dimensions(H/W/D)(mm)        | 1637 x 660 x 140                                                                  | 1791 x 660 x 140                                                                  | 1677 x 660 x 140                                                                  | 1830 x 660 x 140                                                                   | 1983 x 660 x 140                                                                    | 2136 x 660 x 140                                                                    |
| Weight                       | 177.3 kg                                                                          | 196.3 kg                                                                          | 181.9 kg                                                                          | 200.9 kg                                                                           | 219.9 kg                                                                            | 238.9 kg                                                                            |

### GENERAL DATA

|                                                  |                                                                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max.Charge and Discharge Current <sup>[2]</sup>  | 35 A                                                                                                                                                                |
| Peak Charge and Discharge Current <sup>[2]</sup> | 70 A, 10 s                                                                                                                                                          |
| Scalability                                      | Max. 3 in Parallel (70.74 kWh)                                                                                                                                      |
| Installation Mode                                | Floor Stand (standard) / Wall Mount (optional)                                                                                                                      |
| Installation Scene                               | Indoor & outdoor installation                                                                                                                                       |
| Communication                                    | CAN / RS485                                                                                                                                                         |
| Round-trip Efficiency                            | ≥ 95%                                                                                                                                                               |
| Applications                                     | On Grid / On Grid + Backup / Off Grid                                                                                                                               |
| Operating Temperature                            | -20 °C to +55°C                                                                                                                                                     |
| IP Class                                         | IP65                                                                                                                                                                |
| Cooling                                          | Natural Convection                                                                                                                                                  |
| Storage Humidity                                 | 5%~95%                                                                                                                                                              |
| Altitude <sup>[3]</sup>                          | < 4000 m                                                                                                                                                            |
| Warranty <sup>[4]</sup>                          | 15 Years                                                                                                                                                            |
| Accessories (Optional)                           | BYD Smart WIFI/LAN module, Wall-mounting Bracket                                                                                                                    |
| Certification                                    | IEC 62619 / IEC 62040 / IEC 62477-1 / EN 61000-6-1/2/3/4 / EN 301489-1 / EN 301489-17 / EN 300328 / EN 62311 / VDE-AR-E 2510-50 / RCM / CEC / REACH / RoHS / UN38.3 |
| Compatibilities                                  | BYD Power-Box SH3-6K, BYD Power-Box TH5-15K                                                                                                                         |

[1] DC Usable Energy, Test conditions: 0.2C charge & discharge at + 25°C.

[2] Charge derating will occur between -10°C and +10°C, discharge derating will occur between -20°C and +10°C.

[3] The output power may be affected by altitude. Please refer to the user manual for details.

[4] Conditions apply. Refer to BYD Battery-Box HVE Limited Warranty Letter.

### NOTE

A: Note a: 6.43kWh and 4.29kWh are the initial capacity (designed) of the Energy Storage Module.

B: The actual capacity is affected by the external environment (such as temperature, transportation, and storage).