Energy Storage

# 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

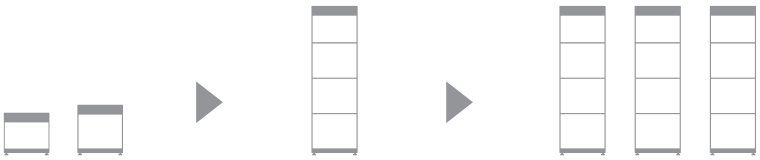
### Ultra Safety
LFP expertise since 2002
1M+ systems in 100+ countries
Safety design from cell to pack

### Flexibility
2 varied capacity modules
Flexible 12 capacity options

### Easy Installation
Patented internal plug connection
Automatic configuration

### Convenience
Wall- & floor-mounted
installation options

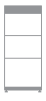
## BATTERY-BOX HVE

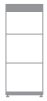
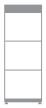
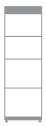
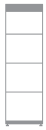


HVE 4.2 / 6.4 | HVE 23.5 | 3 x HVE 23.5

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 [1] | 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 | 72.1 kg | 95.7 kg | 114.7 kg | 133.7 kg | 138.3 kg | 157.3 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 [1] | 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 | 176.3 kg | 195.3 kg | 180.9 kg | 199.9 kg | 218.9 kg | 237.9 kg |

## GENERAL DATA

| | |
|---|---|
| Max.Charge and Discharge Current [2] | 35 A |
| Peak Charge and Discharge Current [2] | 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 [3] | < 4000 m |
| Warranty [4] | 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.

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