2026-09-16 / V1.9 / EN

Energy Storage

BATTERY-BOX **HVE**



KEY FEATURES

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

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

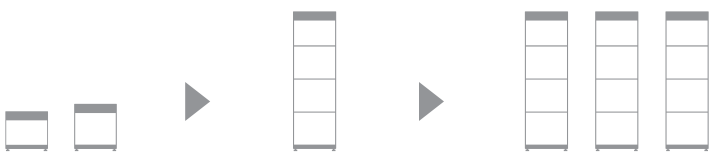
Ultra Safety
LFP expertise since 2002
1M+ systems in 100+ countries
Safety design from cell to pack

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



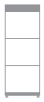
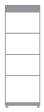
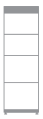
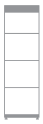
HVE 4.2 / 6.4 → HVE 23.5 → 3 x HVE 23.5

Maximum capacity of
70.74 kWh

BYD Energy Storage

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	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 [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	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 [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 / UN 38.3
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: 6.43 kWh and 4.29 kWh 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).

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