

# **Battery-Box HV**

# The battery for all applications - in direct High Voltage

- From 5.1 kWh to 10.2 kWh
- 200 450 V to use as high-voltage battery
- Emergency-backup through high power
- Maximum efficiency thanks to real series connection
- Lithium iron phosphate Battery: Maximum security, cycle-stability and power
- Patented wireless plug-in design
- 1 and 3 phase systems



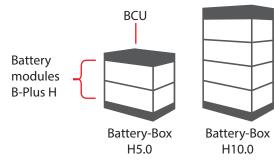


Self-consumption optimization



**Commercial applications** 

#### **Battery-Box HV**



- Flexible 2.56 kWh modules
- Modular design for easy transport and installation (max weight single part: 38 kg)

The BYD Battery-Box is a lithium iron phosphate (LiFePQ) battery for usage with an external inverter. Thanks to its modular design the Battery grows with its requirements: • **Battery-Box H5.0** (5.12 kWh)

- Battery-Box H7.5 (7.68 kWh)
- Battery-Box H10.0 (10.24 kWh)

All systems can be extended with the battery modules **B-Plus H 2.5** at any time. In direct series connection of 2 - 4 battery modules, one Battery-Box HV can reach up to 10.24 kWh (usable).

### Flexible. Efficient. Simple



**Easy plug-in installation** Without any cables

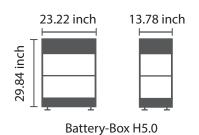


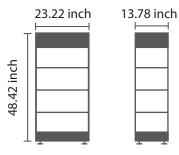
**Extend anytime** Adapt to new requirements



**1 C power** Power for all applications

BYD





Battery-Box H10.0

## **Technical parameters**



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Max Output power         5.12 kW         7.68 kW         10.24 kW           Peak Output power         7.17 kW, 10 s         10.75 kW, 10 s         14.34 kW, 10 s           Peak Output power         7.17 kW, 10 s         10.75 kW, 10 s         14.34 kW, 10 s           Round-Trip Efficiency         ≥95.3 % [1]         200 V         307 V         409 V           Nominal Voltage         204 V         307 V         409 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Communication         RS485 / CAN         320~451 V         320~451 V           Dimensions (W/H/D)         590 x 758 x 350 mm 23.22 x 29.84 x 13.78 inch         23.72 x 39.13 x 13.78 inch         23.22 x 48.42 x 13.78 inch           Veight         95 kg         133 kg         171 kg           Perclosure Protection Rating         IP55         10 years           Indoor and outdoor, ground / Wall mounting [2]         10 years           Operating temperature [3]         14°F to 122°F (-10 °C to +50°C)		Battery-Box H5.0	Battery-Box H7.5	Battery-Box H10.0	
2 modules         3 modules         4 modules           Jsable Energy [1]         5.12 kWh         7.68 kWh         10.24 kWh           Max Output power         5.12 kW         7.68 kW         10.24 kW           Peak Output power         7.17 kW, 10 s         10.75 kW, 10 s         14.34 kW, 10 s           Round-Trip Efficiency         ≥95.3 % [1]         10.20 kWh         10.24 kW           Nominal Voltage         204 V         307 V         409 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Operating Wildy         590 x 758 x 350 mm         23.72 x 39.13 x 13.78 inch         23.22 x 48.42 x 13.78 inch           Neight         95 kg         133 kg         171 kg     <	Dettemumendule		B-Plus H 2.5 (2.56 kWh, 38 kg)		
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Peak Output power       7.17 kW, 10 s       10.75 kW, 10 s       14.34 kW, 10 s         Round-Trip Efficiency       ≥95.3 % [1]         Nominal Voltage       204 V       307 V       409 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       160~225 V       240~338 V       320~451 V         Operating Voltage Range       590 x 758 x 350 mm       23.72 x 39.13 x 13.78 inch       23.22 x 48.42 x 13.78 inch         Veight       95 kg       133 kg       171 kg       171 kg         Enclosure Protection Rating       Indoor and outdoor, ground / Wall mounting [2]       10 years         Varranty       10 years       10 years       14°F to 122°F (-10 °C to +50°C)	Usable Energy [1]	5.12 kWh	7.68 kWh	10.24 kWh	
Round-Trip Efficiency $\geq 95.3 \ \ [1]$ Nominal Voltage204 V $307 \ V$ $409 \ V$ Operating Voltage Range $160 \ 225 \ V$ $240 \ 338 \ V$ $320 \ 451 \ V$ Operating Voltage Range $160 \ 225 \ V$ $240 \ 338 \ V$ $320 \ 451 \ V$ CommunicationRS485 / CAN $RS485 \ CAN$ Dimensions (W/H/D) $590 \ 758 \ x \ 350 \ mm$ $590 \ x \ 994 \ x \ 350 \ mm$ $590 \ x \ 1230 \ x \ 350 \ mm$ Dimensions (W/H/D) $590 \ x \ 758 \ x \ 350 \ mm$ $590 \ x \ 994 \ x \ 350 \ mm$ $23.22 \ x \ 48.42 \ x \ 13.78 \ inch$ Neight $95 \ kg$ $133 \ kg$ $171 \ kg$ Inclosure Protection RatingIP55IP55Installation locationIndoor and outdoor, ground / Wall mounting [2]Narranty10 yearsOperating temperature [3] $14^\circ F \ to \ 122^\circ F \ (-10 \ ^\circ C \ to \ +50^\circ C)$	Max Output power	5.12 kW	7.68 kW	10.24 kW	
Nominal Voltage         204 V         307 V         409 V           Operating Voltage Range         160~225 V         240~338 V         320~451 V           Communication         RS485 / CAN         RS485 / CAN         100 mensions (W/H/D)         590 x 758 x 350 mm 23.22 x 29.84 x 13.78 inch         590 x 994 x 350 mm 23.22 x 48.42 x 13.78 inch         590 x 1230 x 350 mm 23.22 x 48.42 x 13.78 inch           Veight         95 kg         133 kg         171 kg           Enclosure Protection Rating         IP55         IP55           Installation location         Indoor and outdoor, ground / Wall mounting [2]         IP56           Veranty         10 years         10 years           Operating temperature [3]         14°F to 122°F (-10 °C to +50°C)         IP50°C)	Peak Output power	7.17 kW, 10 s	10.75 kW, 10 s	14.34 kW, 10 s	
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Operating temperature [3]14°F to 122°F (-10 °C to +50°C)	Installation location	Indoor and outdoor, ground / Wall mounting [2]			
	Warranty		10 years		
Certification & Safety Standard III 1642 / III 1973 / ECC / IIN38 8	Operating temperature [3]	14°F to 122°F (-10 °C to +50°C)			
	Certification & Safety Standard	UL1642 / UL1973 / FCC / UN38.8			
Compatible inverters [4] Refer to BYD Battery-Box Compatible Inverter List	Compatible inverters [4]				
Application [4] ON Grid (Self consumption / Battery Backup /Backup)	) /Backup)				

[1] Test conditions: 100% DOD, 0.2C charge & discharge at 77°F (+ 25 °C). System Usable Energy may be variant with diffrent inverter brands

[2] Wall mounted accessories are optional, coming soon

[3] 14°F to 53°F (-10 °C to 12 °C) will be derating
[4] Detailed information refer to BYD Battery-Box Minimum Configuration List. More brands to be announced

Your energy storage expert: