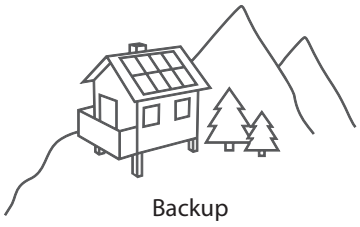
Battery-Box HV



The battery for all applications - in direct High Voltage

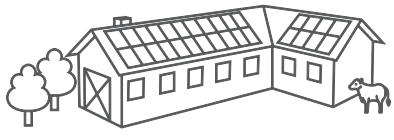
- From 5.1 kWh to 11.5 kWh
- 160 - 500 V to use as high-voltage battery
- Emergency-backup through high power (1 - 2 C)
- Maximum efficiency thanks to real series connection
- Lithium iron phosphate Battery: Maximum security, cycle-stability and power
- Patented wireless plug-in design
- 1 and 3 phase systems



Backup

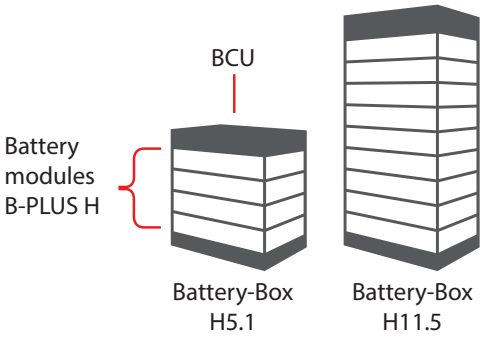


Self-consumption optimization



Commercial applications

Battery-Box HV



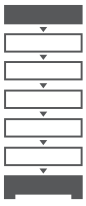
- Flexible 1.28 kWh modules
- Modular design for easy transport and installation (max weight single part: 25 kg)

The BYD Battery-Box is a lithium iron phosphate ($LiFePO_4$) battery for usage with an external inverter. Thanks to its modular design the Battery grows with its requirements:

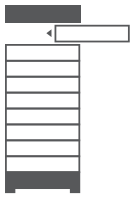
- **Battery-Box H5.1** (5.12 kWh)
- **Battery-Box H6.4** (6.40 kWh)
- **Battery-Box H7.7** (7.68 kWh)
- **Battery-Box H9.0** (8.96 kWh)
- **Battery-Box H10.2** (10.24 kWh)
- **Battery-BOX H11.5** (11.52 kWh)

All systems can be extended with the battery modules **B-Plus H** at any time. In direct series connection of 4 - 9 battery modules, one Battery-Box HV can reach up to 11.52 kWh (usable).

Flexible. Efficient. Simple



Easy plug-in installation
Without any cables

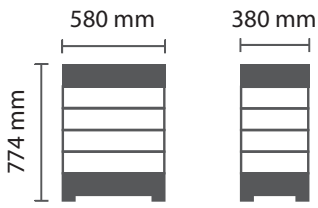


Extend anytime
Adapt to new requirements

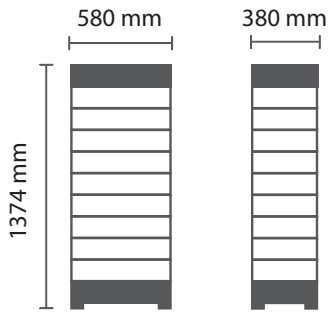


1 - 2 C power
Power for all applications

Dimensions



Battery-Box H5.1



Battery-Box H11.5

Technical parameters



	Battery-Box H 5.1	Battery-Box H 6.4	Battery-Box H 7.7	Battery-Box H 9.0	Battery-Box H 10.2	Battery-Box H 11.5
Battery module	4 modules	5 modules	B-Plus H 1.28 (1.28kWh, 25 kg) 6 modules	7 modules	8 modules	9 modules
Usable Energy [1]	5.12 kWh	6.40 kWh	7.68 kWh	8.96 kWh	10.24 kWh	11.52 kWh
Max Output Power	5.12 kW	6.40 kW	7.68 kW	8.96 kW	10.24 kW	11.52 kW
Peak Output Power	10.24 kW, 30 s	12.80 kW, 30 s	15.36 kW, 30 s	17.92 kW, 30 s	20.48 kW, 30 s	23.04 kW, 30 s
Round-Trip Efficiency	≥95.3 % [1]					
Nominal Voltage	204 V	256 V	307 V	358 V	409 V	460 V
Operating Voltage Range	160~225 V	200~282 V	240~338 V	280~395 V	320~451 V	360~500 V
Communication	RS485 / CAN					
Dimensions (W/H/D)	580 x 774 x 380 mm	580 x 894 x 380 mm	580 x 1014 x 380 mm	580 x 1134 x 380 mm	580 x 1254 x 380 mm	580 x 1374 x 380 mm
Weight	118 kg	143 kg	168 kg	193 kg	218 kg	243 kg
Enclosure Protection Rating	IP55					
Warranty [2]	10 years					
Operating temperature [3]	-10 °C to +50°C					
Certification & Safety Standard	UL1642 / TUV(IEC62619) / CE / RCM / UN38.3 / Sicherheitsleitfaden Li-Ionen-Hausspeicher					
Scalability	To be announced					
Compatible Inverters [4]	SMA (4-8 modules) / Kostal / Fronius (5-9 modules) / GoodWe / Ingeteam (4-5 modules)					
Application [4]	ON Grid (Self consumption / ON Grid + Backup / Backup)					

[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C. System Usable Energy may be variant with different inverter brands
[2] Conditions apply. Refer to BYD Battery-Box Warranty Letter.
[3] -10 °C to +12 °C will be derating
[4] Detailed and updated information refer to BYD Battery-Box Inverter Compatible List and Minimum Configuration List. More brands to be announced.

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Your energy storage expert: