

# BATTERY-BOX PREMIUM HVS / HVM

- Powerful emergency/backup power and off-grid functionality
- Award-winning efficiency thanks to true series connection
- The patented modular plug-in design requires no internal wiring and allows for maximum flexibility and ease of use
- Cobalt-free lithium iron phosphate battery (LFP): maximum safety, lifespan and performance
- Compatible with leading 1 and 3 phase inverters
- Two different modules to cover the whole system size range
- Highest safety standards such as VDE 2510-50

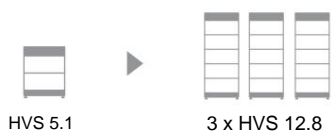


## BATTERY-BOX PREMIUM HVS

A Battery-Box Premium HVS consists of 2 to 5 HVS battery modules connected in series to achieve a capacity of 5.1 to 12.8 kWh.

The direct parallel connection of up to 3 identical Battery-Box Premium HVS also enables a maximum capacity of 38.4 kWh.

The system can be expanded later by adding additional HVS modules or parallel HVS towers.

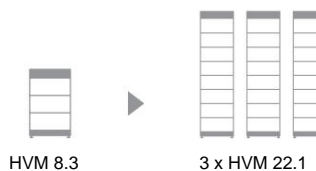


## BATTERY-BOX PREMIUM HVM

A Battery-Box Premium HVM consists of 3 to 8 HVM battery modules connected in series to achieve a capacity of 8.3 to 22.1 kWh.

The direct parallel connection of up to 3 identical Battery-Box Premium HVM also enables a maximum output of 66.2 kWh.

The system can be expanded later by adding additional HVM modules or parallel HVM towers.



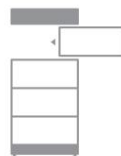
## SIMPLY. FLEXIBLE



**Just install**  
without cable



**Simply lay out**  
from 5.1 to 66.2 kWh













**Just expand**  
prepared for any change



**Simply powerful**  
for every situation

## TECHNICAL PARAMETERS PREMIUM HVS / HVM

|                                    |  |  |  |  |
|------------------------------------|---|---|---|---|
|                                    | <b>HVS 5.1</b>  | <b>HVS 7.7</b>  | <b>HVS 10.2</b>   | <b>HVS 12.8</b>   |
| battery module                     | HVS (2,56 kWh, 102,4 V, 38 kg)  |   |   |   |
| Number of battery modules          | 2   | 3   | 4   | 5   |
| Usable capacity <sup>[1]</sup>     | 5,12 kWh  | 7,68 kWh  | 10,24 kWh   | 12,8 kWh  |
| Max output current <sup>[2]</sup>  | 25 A  | 25 A  | 25 A  | 25 A  |
| peak output current <sup>[2]</sup> | 50 A, 3 s   | 50 A, 3 s   | 50 A, 3 s   | 50 A, 3 s   |
| nominal voltage                    | 204.8 V   | 307.2 V   | 409.6 V   | 512 V   |
| voltage range                      | 160~240V  | 240~360V  | 320~480V  | 400~600V  |
| Dimensions (H / W / D)             | 762 x 585 x 298 mm 995 x 585 x 298 mm 1228 x 585 x 298 mm 1461 x 585 x 298 mm     |   |   |   |
| Weight                             | 91 kg   | 129 kg  | 167 kg  | 205 kg  |

|                                    |  |  |  |  |  |  |
|------------------------------------|--|--|--|--|--|--|
|                                    | <b>HVM 8.3</b>   | <b>HVM 11.0</b>  | <b>HVM 13.8</b>  | <b>HVM 16.6</b>  | <b>HVM 19.3</b>  | <b>HVM 22.1</b>  |
| battery module [3]                 | HVM (2.76 kWh, 51.2 V, 35 / 38 kg)   |  |  |  |  |  |
| Number of battery modules          | 3  | 4  | 5  | 6  | 7  | 8  |
| Usable capacity <sup>[1]</sup>     | 8,28 kWh   | 11,04 kWh  | 13,80 kWh  | 16,56 kWh  | 19,32 kWh  | 22,08 kWh  |
| Max output current <sup>[2]</sup>  | 50 A   | 50 A   | 50 A   | 50 A   | 50 A   | 50 A   |
| peak output current <sup>[2]</sup> | 75 A, 3 s  | 75 A, 3 s  | 75 A, 3 s  | 75 A, 3 s  | 75 A, 3 s  | 75 A, 3 s  |
| nominal voltage                    | 153.6 V  | 204.8 V  | 256 V  | 307.2 V  | 358.4 V  | 409.6 V  |
| voltage range                      | 120~177V   | 160~236V   | 200~295V 240~354V  |  | 280~413V   | 320~472V   |
| Dimensions (H / W / D)             | 995 x<br>585 x 298 mm  | 1228 x<br>585 x 298 mm   | 1461 x<br>585 x 298 mm   | 1694 x<br>585 x 298 mm   | 1927 x<br>585 x 298 mm   | 2160 x<br>585 x 298 mm   |
| weight [4]                         | 119~129 kg   | 153~167 kg   | 188~205 kg   | 222~243 kg   | 257~281 kg   | 291~319 kg   |

### HVS & HVM

|                      |   |
|----------------------|---|
| ambient temperature  | -10°C to +50°C  |
| cell technology      | Lithium Iron Phosphate Battery (Cobalt Free)                            |
| interfaces           | CAN / RS485   |
| IP protection class  | IP55  |
| battery efficiency   | γ 96%   |
| certification        | VDE2510-50 / IEC62619 / CEC / CE / UN38.3                               |
| Application          | ON Grid / ON Grid + Backup / OFF Grid                                   |
| Warranty period [5]  | ten years   |
| Compatible inverters | According to BYD Battery-Box Premium HVS / HVM compatible inverter list |

[1] Usable DC capacity, test conditions: 100% DOD, 0.2C charge and discharge at +25°C; usable capacity may depend on the inverter.

[2] From -10 °C to 5 °C the performance is derated.

[3] The HVM module comes in two versions with two types of cells that are deployed separately. Both versions have the same performance, only the weights are different.

[4] The HVM module has two versions with two separately inserted cell types. Both versions have the same performance, however different weights.

[5] Two versions of the HVM module are mutually adaptable and can be stacked in a tower. The weights of the tower can be at mixed HVM modules vary.

