



**Battery
Box**

BATTERYBOX PREMIUM LVS



KEY FEATURES



Safety

LFP cells developed in-house
Proven in millions of EVs



Reliability

LFP expertise since 2002
1M+ systems in 100+ countries



High Performance

High power in on-grid / off-grid /
backup scenarios



Flexibility

Modular design
Expandable anytime



Easy Installation

Patented internal plug connection
Quick set-up



Perfect Compatibility

Compatible with leading single
& three phase inverters

BATTERYBOX PREMIUM LVS



Maximum capacity of

256 kWh



TECHNICAL PARAMETERS PREMIUM LVS



PERFORMANCE

Battery Module		LVS (4 kWh, 51.2 V, 45 kg)				
Number of Modules	1	2	3	4	5	6
Usable Energy ^[1]	4 kWh	8 kWh	12 kWh	16 kWh	20 kWh	24 kWh
Max Cont. Output Current ^[2]	65 A	130 A	195 A	250 A	250 A	250 A
Peak Output Current ^[2]	90 A, 5 s	180 A, 5 s	270 A, 5 s	360 A, 5 s	360 A, 5 s	360 A, 5 s
Dimensions(H/W/D)	528 x 650 x 298 mm	761 X 650 x 298 mm	994 x 650 x 298 mm	1227 x 650 x 298 mm	1460 x 650 x 298 mm	1693 x 650 x 298 mm
Weight	64 kg	109 kg	154 kg	199 kg	244 kg	289 kg

GENERAL DATA

Nominal Voltage	51.2 V	
Operating Voltage	40 - 57.6 V	
Operating Temperature	-10°C to +50°C	
Battery Type	Lithium Iron Phosphate (LiFePO4)	
Communication	CAN	
Protection Rating	IP55	
Round-Trip Efficiency	≥ 95%	
Environment	Indoor / Outdoor	
Mounting Method	Floor Stand	
Scalability ^[3]	Max. 64 Modules in Parallel (256 kWh)	Single Tower Only
Certification	VDE2510-50 / IEC62619 / CE / CEC / UN38.3	
Applications	ON Grid / ON Grid + Backup / OFF Grid	
Compatible Inverters		
Warranty ^[4]	10 Years	

[1] DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at + 25°C. System Usable Energy may vary with different inverter brands.

[2] Charge derating will occur between -10°C and +5°C.

[3] Parallel tower function only available for 1 to 4 battery modules per tower. LVS 20.0 and LVS 24.0 can only be used as a single tower.

[4] Conditions apply. Refer to BYD Battery-Box Premium Limited Warranty Letter.

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