



# BYD BATTERY-BOX LV

## LOW VOLTAGE BATTERY STORAGE

### BATTERY-BOX L 3.5-14.0

BYD Battery-Box Low Voltage (LV) is a 48 V lithium-ion battery that charges using electricity generated either from your solar panels or from the grid when the utility rates are low; to then power your home in the evening, when the sun is not shining or when utility rates are higher.

Battery-Box LV is modular and scalable in design, providing flexibility and ease of installation, and is suitable for all domestic applications.

With stackability of 1 to 4 B-PLUS L 3.5 modules, this battery is capable of delivering between 3.5 and 14.0 kWh of usable energy.

It is possible to connect up to 3 Battery-Box LV in parallel, to deliver a maximum of 42.0 kWh.



**CAPTURES AND STORES EXCESS SOLAR ENERGY FOR USE AT NIGHT**

## HOW YOU BENEFIT



### HIGH EFFICIENCY

Captures and stores excess solar energy resulting in greater self-consumption of solar generation and reduced energy costs.



### MODULAR BATTERY

Scalable battery system size allows for excellent design flexibility, ensuring you have the most appropriate system for your household.



### INNOVATIVE

Extensive life testing of the state-of-the-art Lithium-Ion Phosphate battery chemistry ensures reliability and energy retention.



### SAFE OPERATION

BYD brings its proven safety record and experience as the world's largest EV manufacturer to their home battery products.



### SOLAHART WARRANTY

Enjoy a 10-year warranty for peace of mind.\*

## Technical Data

MODEL				
B-PLUS L 3.5 (3.5 KWH, 42 KG)				
Battery Modules	Battery-Box L 3.5	Battery-Box L 7.0	Battery-Box L 10.5	Battery-Box L 14.0
Number of battery modules	1	2	3	4
Usable energy <sup>(1)</sup>	3.5 kWh	7.0 kWh	10.5 kWh	14.0 kWh
Maximum output power <sup>(2)</sup>	3.0 kW	6.0 kW	9.0 kW	10.0 kW
Peak output power	5.0 kW, 10 s	10.0 kW, 10 s	15.0 kW, 10 s	15.0 kW, 10 s
Round-trip efficiency	≥95 % <sup>(3)</sup>			
Nominal voltage	51.2 V			
Operating voltage range	40 ~ 59.2 V			
Communication	RS485 / CAN			
Application	ON Grid / ON Grid + Backup			
Compatible Inverters	GoodWe Hybrid and Battery Inverters			
Mechanical Specifications				
Dimensions (W x H x D)	620 x 497 x 355 mm	620 x 733 x 355 mm	620 x 968 x 355 mm	620 x 1205 x 355 mm
Weight	65 kg	107 kg	149 kg	191 kg
Scalability	Max. 3 Systems in parallel / 42kWh			
Environmental Specifications				
Operating temperature <sup>(4)</sup>	-10 °C to +50°C			
Environment	Indoor / Outdoor rated			
Enclosure protection rating	IP 55			
Compliance Information				
Certification & Safety Standard	UN38.3 / TUV(IEC6219) / CE / RCM			
Warranty <sup>(5)</sup>	10 Years			



<sup>(1)</sup> A minimum amount of usable energy is reserved for safe system operation (15% for Battery-Box L 3.5 and 10% for Battery-Box L 7.0 and above).

<sup>(2)</sup> Subject to inverter capability.

<sup>(3)</sup> Test Conditions: 100% DOD, 0.2C charge and discharge at +25°C. System usable energy may vary with different inverter brands.

<sup>(4)</sup> For temperatures between -10°C and +12°C there will be derating.

<sup>(5)</sup> For full details see Solahart Owner's Guide. Conditions Apply.