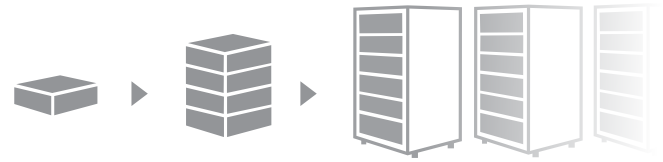
BATTERY-BOX **LV FLEX**

- Perfect Battery for bespoke Projects and Integrated Systems
- Scalable from 5 kWh to 320 kWh
- Maximum Flexibility for any Application with up to 64 Modules Connected in Parallel
- Compatible with Market Leading 1 and 3 Phase Inverters
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Lifespan and Power
- Capable of High-Powered Emergency-Backup and Off-Grid Function
- Self-Consumption Optimization for Residential and Commercial Applications



BATTERY-BOX LV Flex

The BYD Battery-Box LV Flex is a lithium iron phosphate (LFP) battery pack for use with an external inverter. The communication with the inverter is established through the Battery-Box Premium LV BMU (Battery Management Unit). Connect up to 64 LV Flex Modules in parallel on one BMU to reach individual capacities between 5 and 320 kWh. Thanks to it´s 3U design, the LV Flex can adapt to off-the-shelf racking systems. And with the possibility of stacking up to 4 units or installing them vertically, the LV Flex provides a variety of options for bespoke housing designs.



1 x LV Flex 4 x LV Flex 64 x LV Flex

TECHNICAL PARAMETERS **LV Flex**

	LV Flex
Usable Energy [1]	5.0 kWh
Max Cont. Output Current [2]	70 A
Peak Output Current [2]	105 A, 5 s
Dimensions (H/W/D)	132x 482 x 525 mm
Weight	47 kg
Nominal Voltage	51.2 V
Operating Voltage	43.2 -57.6 V
Operating Temperature	-10 °C to +50°C
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)
Communication	CAN/RS485
Enclosure Protection Rating	IP20
Round-trip Efficiency	≥95%
Scalability	Max. 64 in Parallel (320 kWh)
Certification	IEC62619 / CE / UN38.3 / IEC62040
Applications	ON Grid / ON Grid + Backup / OFF Grid
Compatible Inverters	Refer to BYD Battery-Box LV Flex Minimum Configuration List
Installation method	With / Without Rack
Nominal Capacity	5.0 kWh
Rated DC Power	3.6 kW
Max Charge and Discharge Power	5.4 kW
Max Charge and Discharge Current	105 A
Short Circuit Current	2500 A

[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