

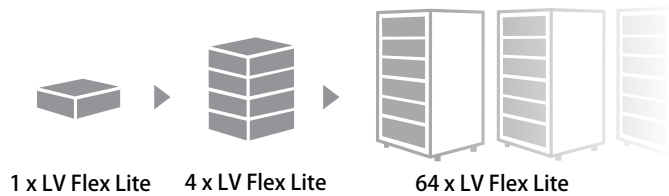
BYD BATTERY-BOX LV FLEX LITE

- 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



BYD BATTERY-BOX LV Flex Lite

The BYD Battery-Box LV Flex Lite 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 Lite Modules in parallel on one BMU to reach individual capacities between 5 and 320 kWh. Thanks to its 3U design, the LV Flex Lite 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 Lite provides a variety of options for bespoke housing designs.



TECHNICAL PARAMETERS LV Flex Lite



LV Flex Lite

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 521 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
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 Lite Minimum Configuration List
Installation method	With / Without Rack

[1] DC Usable Energy, test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C. System usable energy may vary due to system configuration parameters.

[2] Charge derating will occur between -10 °C and +15 °C.

