

# BATTERY-BOX LV FLEX

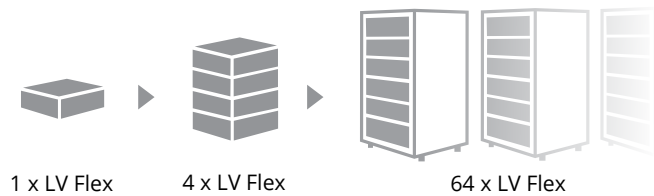
- Perfect Battery for bespoke Projects and Integrated Systems
- Scalable from 5 kWh to 320 kWh
- Maximum Flexibility for any Application with up to 64 Modules Connected in Parallel
- Compatible with Market Leading 1 and 3 Phase Inverters
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, 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 LV Flex 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 its 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.



## TECHNICAL PARAMETERS LV Flex



LV Flex

Usable Energy [1]	5.0 kWh
Max Cont. Output Current [2]	70 A
Peak Output Current [2]	105A, 5 s
Dimensions (H/W/D)	131x 441 x 461 mm
Weight	46.5 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 / CEC / UN38.3/EN62040
Applications	ON Grid / ON Grid + Backup / OFF Grid
Compatible Inverters	Refer to BYD Battery-Box LV Flex Minimum Configuration List

[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

