PRODUCT DATASHEET

LV FLEX LITE BATTERY Lithium Iron

Advanced lithium iron phosphate (LFP) battery solution designed for versatile and scalable energy storage. With a compact and flexible design, it supports various applications, including residential, commercial, and backup systems. Its cobalt-free LFP technology ensures maximum safety, a long lifespan, and optimal power efficiency. The system is compatible with leading inverters, offering exceptional adaptability for integrated and bespoke projects.

Typical Applications

- Residential Use: Self-consumption optimization and energy storage for homes.
- Commercial Systems: Backup and energy optimization for businesses.
- On-Grid Systems: Enhances grid-tied energy systems with backup capabilities.
- Off-Grid Systems: Provides robust energy storage for off-grid installations.
- High-Powered Backup: Supports emergency power backup during outages.
- Scalable Solutions: Ideal for large-scale energy projects requiring up to 320 kWh of storage.

Operating Conditions

- Scalable Capacity: Supports configurations ranging from 5 kWh to 320 kWh with up to 64 modules connected in parallel.
- Enhanced Safety: Utilizes cobalt-free Lithium Iron Phosphate (LFP) technology for improved safety and extended battery life.
- High Efficiency: Provides a round-trip efficiency of ≥95%, ensuring minimal energy loss.
- Compact Design: Features a modular 3U design suitable for off-the-shelf racking systems, with options for stacking or vertical installation.
- Wide Compatibility: Works with leading 1-phase and 3-phase inverters and integrates seamlessly into diverse energy systems.
- Robust Performance: Delivers a continuous output of 70 A and a peak output of 105 A for 5 seconds, operating effectively in temperatures from -10°C to +50°C.
- Reliable Communication: Equipped with CAN communication protocol for seamless inverter connectivity.

Compatible Inverters : Victron Energy, SMA, Solis, Selectronic, Goodwe, Deye, SunSynk

Technical Data

Usable Energy	Max Cont. Output Current	Peak Output Current	Nominal Voltage	Operating Voltage	Round-trip Efficiency	Operating Temp.	Weight	Dimensions (H/W/D)	Battery Cell Technology	Communication	Enclosure Rating	Efficiency	Scalability	Applications
5.0 kWh	70 A	105 A, 5 s	51.2 V	43.2 - 57.6 V	≥ 95%	-10 °C to +50 °C	47 kg	132 x 482 x 521 mm	Lithium Iron Phosphate	CAN	IP20	≥95%	Max. 64 (320 kWh)	ON/ON + Backup/OFF Grid