# Sunbatt Flex

The Sunbatt Flex battery is an advanced high-voltage energy storage solution, leveraging Lithium Iron Phosphate (LFP) technology to deliver superior performance and safety.

Featuring a modular, stackable design, the Sunbatt Flex offers unparalleled flexibility in configuration, enabling custom energy capacities ranging from 9.6 kWh to 153.6 kWh to suit a variety of application needs.

Its exceptional versatility renders it an ideal solution for a broad spectrum of energy applications, including on-grid and off-grid systems, backup power, as well as both single-phase and three-phase installations.

**IP65**
High water and dust resistance

**Effortless setup**
Automatic battery configuration

**Intelligent display**
Key Info, Error codes, SOC

## Efficient installation system

- Modular, stackable design; easy to handle (<36.5kg/stack).
- Slim and compact for space efficiency.
- Plug-and-play with Direct Connect RJ45.
- Durable aluminium housing
- IP65 rated for dust and water resistance

## Innovative design system

- Advanced LFP Chemistry for safety & longevity.
- Automatic inverter and battery configuration for effortless setup.
- Intelligent display: Key Info, Error codes, SOC.
- Versatile for all applications: 1 & 3 phase, on/off grid & backup.
- High efficiency, no DC/DC conversion.
- Scalable: Connect up to 6 towers in parallel.

## Smart BMS 1.0

| | |
|---|---|
| Operating Voltage Range | 120-600 V |
| Max Output Current | 30A |
| Peak Output Current | 50 A (5s) |
| Communication | CAN 2.0 / RS485 |
| Dimensions | 180x650x260 mm |
| Weight | ≤ 20 kg |

## Battery Stack

| | |
|---|---|
| Battery Cell technology | LFP |
| Operation temperature | –10~55 °C |
| Usable Energy | 3.2 kWh |
| Nominal Voltage | 64 V |
| Operating Voltage Range | 54~73 V |
| Max Output current | 30 A |
| Peak output current | 50 A (5s) |
| Dimensions | 175x650x260 mm |
| Weight | ≤ 36.5 kg |

## Stacks

| | | | | | | |
|---|---|---|---|---|---|---|
| Number of Stacks | 3 | 4 | 5 | 6 | 7 | 8 |
| Usable Energy | 9.6 kWh | 12.8 kWh | 16.0 kWh | 19.2 kWh | 22.4 kWh | 25.6 kWh |
| Max Output Current | 30 A | 30 A | 30 A | 30 A | 30 A | 30 A |
| Peak Output Current | 50 A (5s) | 50 A (5s) | 50 A (5s) | 50 A (5s) | 50 A (5s) | 50 A (5s) |
| Nominal Voltage | 192 V | 256 V | 320V | 384 V | 448 V | 512 V |
| Operating Voltage Range | 162~219 V | 216~292 V | 270~365 V | 424~438 V | 378~511 V | 432~584 V |
| Scalability | Up to 6 towers in parallel (From 9.6 kWh to 153.6 kWh) | | | | | |
| Dimensions (HxWxD) | 800x650x 260mm | 975x650x 260mm | 1150x650x 260mm | 1325x650x 260mm | 1500x650 260mm | 1675x650x 260mm |
| Weight | 125,9 kg | 166 kg | 202,5 kg | 239 kg | 275,5 kg | 312 kg |

## General Parameters

| | |
|---|---|
| Operation temperature | –10~55 °C |
| Protection rating | IP65 |
| Round-trip efficiency | ≥ 95 % |
| Certification & Compliance | IEC62619 / CEC / CE / UN38.3 |
| Applications | ON Grid / ON Grid +Backup / OFF Grid |
| Warranty | 10 Years |