



Flex 5

5.12kWh Rack-Mounted Battery Module Residential and Telecom Applications

The Flex battery is your dependable on and off-grid power solution. This LiFePO4 (LFP) battery offers extended life, reliable performance in any climate, and easy expansion (up to 15 batteries) for both homes and remote telecom sites. Power through outages or keep your connection strong wherever you are.



Safety:
LiFePO4 (LFP) Grade A cells



Flexible:
Rack-mounted design,
expandable up to 15 units in parallel

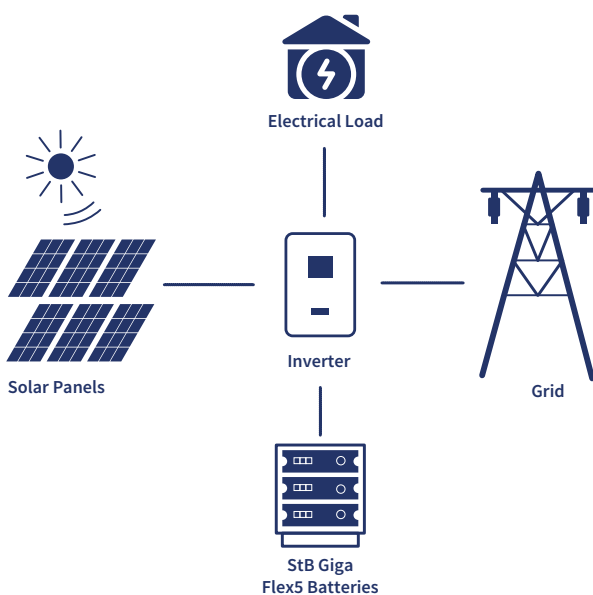


High Performance:
97% efficiency, 90% DOD

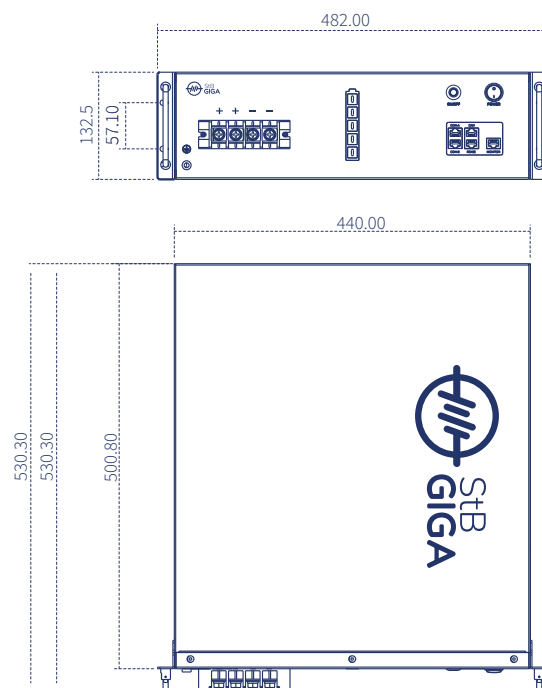


Widely Compatible:
Compatible with many inverter brands:
SMA/Studer/Solis/Victron/GoodWe/
DEYE/Growatt/Voltronic

Block Diagram



Dimensions (mm)



Electrical Specifications

Cell Type	LiFePO4 (LFP)
Rated Voltage	51.2V
Working Voltage Range	44.8 to 57.6V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Standard Charge/Discharge Current	50A
Maximum Charge/Discharge Current	100A
DOD	90%
Parallel Configuration	Max. 15 Units
Efficiency	97%
Throughput Energy	14MWh (+25°C, 0.5C, 90% DOD, 70% SOH)
Main Breaker	125A/2P (Optional, upon request*)

Mechanical Specifications

Dimensions (WxHxD)	482x133x530mm
Weight	46kgs
Cooling Method	Natural Cooling
IP Rating	IP20
Charging Temperature Range	0°C to +55°C
Discharging Temperature Range	-20°C to +55°C
Humidity	0 to 95% (No condensation)
Storage Temperature Range	-20°C to +50°C

Communications

Communication Port	CAN/RS485
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Compatible Inverters

SMA/SOLAX/GOODWE/Studer/VICTRON/SOFAR
INVT/Growatt/Solis/PYLON/Imeon/DEYE/Voltronic

Installation Accessories

The Flex 5 battery pack includes the following accessories in addition to the battery itself. Depending on mounting option chosen, additional accessories will be included.

Standard

- (1) Positive Power Cable
- (1) Negative Power Cable
- (1) Parallel Communication Cable
- (1) Inverter Communication Cable

Stack Mounted Option

- (1) Positive Power Cable
- (1) Negative Power Cable
- (1) Parallel Communication Cable
- (1) Inverter Communication Cable
- (4) Support Bases + screws
- (4) Battery Stack Brackets + screws

Wall Mounted Option

- (1) Positive Power Cable
- (1) Negative Power Cable
- (1) Parallel Communication Cable
- (1) Inverter Communication Cable
- (4) Wall Mount Brackets + Screws
- (4) Self-Tapping Expansion Bolts

*Main Breaker (125A/2P) is an option available upon request, part number Flex 5A

Note: This battery does not include an inverter. This battery must be combined with a third-party inverter to form a Residential ESS. The batteries can be installed in parallel in an IP54 housing to form a high-capacity residential storage battery.