



Battery Energy Storage LFP 51.2V

15 Kwh / 16 Kwh

The ideal solution for solar-plus-storage
off-grid installations

Superb performance

- Lithium-ion (LFP) batteries are preferred for their superior cycle life, safety, and efficiency compared to lead-acid alternatives
- Health degradation less than 5%
- scalable design up to 228Kwh

Ultimate flexibility

- Better integration with your existing hybrid inverter
- PV, Hybrid and Genset use cases
- Thermal management option for cold climates

Complete reliability

- Cover essential loads or full home usage depending on efficiency
- Lasting more than 10-year lifespan
- Energy independence like backup power, daily cycling, or outage mode

New, modern design

- Backlit-LCD display with more functional capabilities
- Thinnest on depth, take less space on the floor

Quick commissioning

- BMS tools available via RS485 or CAN
- Seamlessly transfer cell data to inverter, remotely monitor and control devices

Syntrue is focus on taylored solutions for the energy storage system to help small local companies saving electricity bills and reducing carbon footprint on business activities. Installers choose Syntrue for reliability, performance and felexibility grid instability.

The Goodenough-15 is well-suited for medium-sized shops with solar arrays of 15–25kW, seeking complete off-grid capability without additional units. And solar-plus-storage adoption support small size enterprise with back up power due to grid instability.

With high-quality cell performance and proper usage habits, this battery is engineered to deliver an extended lifespan of 8,000 to 10,000 cycles. It features minimal degradation, capacity retention with only 3% loss by the end of the third year.

Technical data	Goodenough - 15	Goodenough - 16
Cell Type		
Chemistry	LFP-Prismatic	
Pack configuration	16S1P	
Electrical Data		
Norminal Voltage	51.2V	
Norminal Ah Capacity	300 Ah	314 Ah
Usable Kwh Capacity	14.6 Kwh	15.2 Kwh
Max Charge/Discharge Current	150 A / 150 A	150 A / 200 A
Max Output Power	7680 W	10000 W
Charge / Discharge Current	60 A / 60 A	
Charging Voltage	55.2V (3.45V per cell)	
Discharging cut-off Voltage	46.4V (2.9V per Cell)	
AC Internal Resistance	≤20 mΩ	
General Data		
Dimension (L/W/H)	414*232*825mm	
Weight	110 kg	
Charging Temperature	0°C to 60°C	
Discharging Temperature	-20°C to 60°C	
Design Life	10 Years (25°C 80%DOD@0.2C)	
Comm Interface	RS485 / CAN	
Scalability	Up to 219 Kwh	Up to 228 Kwh
BMS Protection Data		
Overcharge Protection Voltage	3.65V per cell	
Overdischarge Protection Voltage	2.9V per cell	
Balancing Active Voltage / Current	3.4V / 100 mA	
Fire Prevention	Aerosol Extinguishing	

Specifications at nominal conditions Last revised: 01/2026