

## **TGPower Home Energy Storage System**

## TGP-BAT-LV51-16

## 314Ah, 51.2V, 16kWh Home Storage Battery

Start Small, Scale Big Modular system supports up to 15 battery units, enabling extended

backup capacity for uninterrupted home power supply.

Low Voltage High Safety Absolute Stability Engineered for residential use with a safe operating range of 42–57.6V, with built-in protections to ensure enhanced system protection and sta-

ble performance.

Station-Grade Reliability, Built to Last Equipped with premium 314Ah station-grade cells, delivering uncompromising safety and durability with 6000 cycles @ 80% DOD, ensuring

a service life of 15+ years

Engineered for Outdoors Built for all weather, designed with IP65 weather protection for safe out-

door installation,

Seamless PV Integration Pre-integrated PV inverter allows solar systems to be added effortlessly,

maximizing your power independence.















Model	TGP-BAT-LV51-16
Cell Type	LFP
Nominal Energy	16kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Operating Voltage Range	42.0~57.6V
Nominal Charge Voltage	57.6V
Charge Current/Max. Continuous	150A
Discharge Cut-off Voltage	42.0V
Discharge Current/Max. Continuous	150A
Recommended Depth of Discharge	80%
Ambient Temperature/Charge	0-60°C
Ambient Temperature/Discharge	-20-60°C
Dimension(W*H*D)	500*850*250mm
Weight	Approx. 127kg (With Battery Bracket)
IP Rating	IP65

Expansion	Max. 15 Units in Parallel
Color	White
Communication	CAN/RS485
Monitoring	APP
Cooling Mode	Natural Cooling
Cycle Life	6000 Cycles, 80%DOD@25°C
Design Life	15+ Years (25°C)
Installation Method	Floor Mounted
Allowed Humidity Range	95% RH
Altitude	<2000m
Protections	Over Charge/Over Discharge/Over Temperature/Over Current/Short Circuit etc.
Certifications	UL 1973, UL 9540A, UN38.3