

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 stable 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 outdoor 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	UL1973, UL9540A, UN38.3