



FLOOR-STANDING ENERGY STORAGE

LFF51280 / LFF51314

Floor-standing LiFePO₄ battery series for residential energy storage, featuring long cycle life, advanced BMS protection, easy installation, and broad inverter compatibility.



LFF51280
280Ah | 14.336kWh



LFF51314
314Ah | 16.077kWh



Long Life



Mobility



Space Saving



Appliance Style

PRODUCT SPECIFICATIONS

ITEM	LFF51280	LFF51314
BATTERY PARAMETERS		
Product Specification	51.2Vdc	51.2Vdc
Voltage Range	43.2-57.6Vdc	43.2-57.6Vdc
Nominal Capacity	280Ah	314Ah
Rated Energy Capacity	14.336kWh	16.077kWh
Cycle Life	6500+ cycles @ 80% DOD	6500+ cycles @ 80% DOD
Cell Chemistry	LiFePO ₄	LiFePO ₄
Storage Temperature	-30°C to 45°C (1 month); -30°C to 35°C (6 months)	-30°C to 45°C (1 month); -30°C to 35°C (6 months)
CHARGE SPECIFICATIONS		
Equalizing Charge Voltage	57.6V	57.6V
Charge-Down Current Turn-On Condition	Single-cell voltage $\geq 3.55V$	Single-cell voltage $\geq 3.55V$
Charge Current Drop Value	$\leq 40A$	$\leq 40A$
Charge Cut-off Condition	57.6V or single current $\geq 3.6A$	57.6V or single current $\geq 3.6A$
Maximum Charge Current	200A	200A
Charge Temperature	-5°C to 55°C	-5°C to 55°C
DISCHARGE SPECIFICATIONS		
Maximum Discharge Current	200A	200A
Discharge Cut-off SOC	SOC $\leq 5\%$	SOC $\leq 5\%$
Discharge Cut-off Pack Voltage	Total voltage $\leq 46.2V$	Total voltage $\leq 46.2V$
Discharge Cut-off Cell Voltage	Single-cell voltage $\leq 2.7V$	Single-cell voltage $\leq 2.7V$
Discharge Temperature	-10°C to 55°C	-10°C to 55°C
MECHANICAL SPECIFICATIONS		
Dimensions (W×D×H)	528×250×849mm	528×250×849mm
Weight	Approx. 127kg	Approx. 132kg

APPLICATION SCENARIOS



Backup Power + Storage

Home Energy Storage System: 2 × 16.077kWh 32.15kWh



Off-grid Solar + Storage

Home Energy Storage System: 2 × 14.336kWh 28.67kWh



Residential Solar + Storage

Home Energy Storage System: 5 × 16.077kWh 80.39kWh