



Model: FGL48100
5.22/10.44/15.66/20.88kWh

Low-Voltage Floor-mounted All-in-One ESS

This floor-mounted, low-voltage all-in-one ESS features a modular design with flexible capacity from 5.22 to 20.88kWh in four stacks, equipped with LFP cells and a single-phase inverter. It delivers efficient, adaptable energy storage and backup for home solar systems or small shops, supporting remote smart management.

Flexible Expansion: 5.22–20.88kWh in 4 stacks

Long Life: LFP cells, 6,000 cycles

Safe & Reliable: 95% DoD, stable & durable

Easy Installation: Single-phase, quick setup

Smart Management: CAN/RS485 remote monitoring

Wide Application: Home, shop, small offices, off-grid ready

Battery Data

Model	F5-5K	F5-10K	F5-15K	F5-20K
Cell Chemistry	LFP/ 102Ah			
Rated Energy (kWh)	5.22kWh	10.44kWh	15.66kWh	20.88kWh
Pack Configuration	1P16S	2P16S	3P16S	4P16S
Rated Voltage (V)	51.2V			
Operating Voltage Range (VDC)	44.8-57.6VDC			

PV Input

Max. PV Input Power (W)	5,000W
Max. PV Input Voltage (V)	500V
MPPT Voltage Range (V)	150-500V
Start-Up Voltage (V)	370V
Number of MPPTs (Pcs)	1
Max. PV Input Current per MPPT (A)	60A

AC Input & Output

Rated Input/ Output Power (W)	5,000W
Rated Input/ Output Voltage (V)	220V/ 230V/ 240V (Adjustable)
Rated AC Frequency (Hz)	50/ 60Hz
Max. Output Current (A)	22A
Total Harmonic Distortion (THDi)	<3%
Power Factor	0.8 Leading to 0.8 Lagging
Grid Transfer Time (ms)	20ms
Grid Connection	Single Phase

General Data

Dimensions (W*D*H) (mm)	634×170×771	634×170×1,146	634×170×1,521	634×170×1,896
Weight (kg)	77kg	131kg	185kg	239kg
Altitude (m)	4,000m (Derating above 2,000m)			
Display	LCD Display			
Safety Protection	High/Under Voltage Protection, Short Circuit Protection, Overload Protection.			
BMS Communication	CAN/RS485			
IP Rating	IP21			
Operating Temperature (°C)	-15~60°C (Battery: 0~40°C)			
Relative Humidity	20%~95% (No Condensing)			
Cycle Life	6,000 Cycles			
Installation Method	Floor-Standing			
Certifications	CE, RoHS, UN38.3			