



Single Phase Hybrid Inverter

LFM02-P1M6K-EU



LFM02-P1M8K-EU

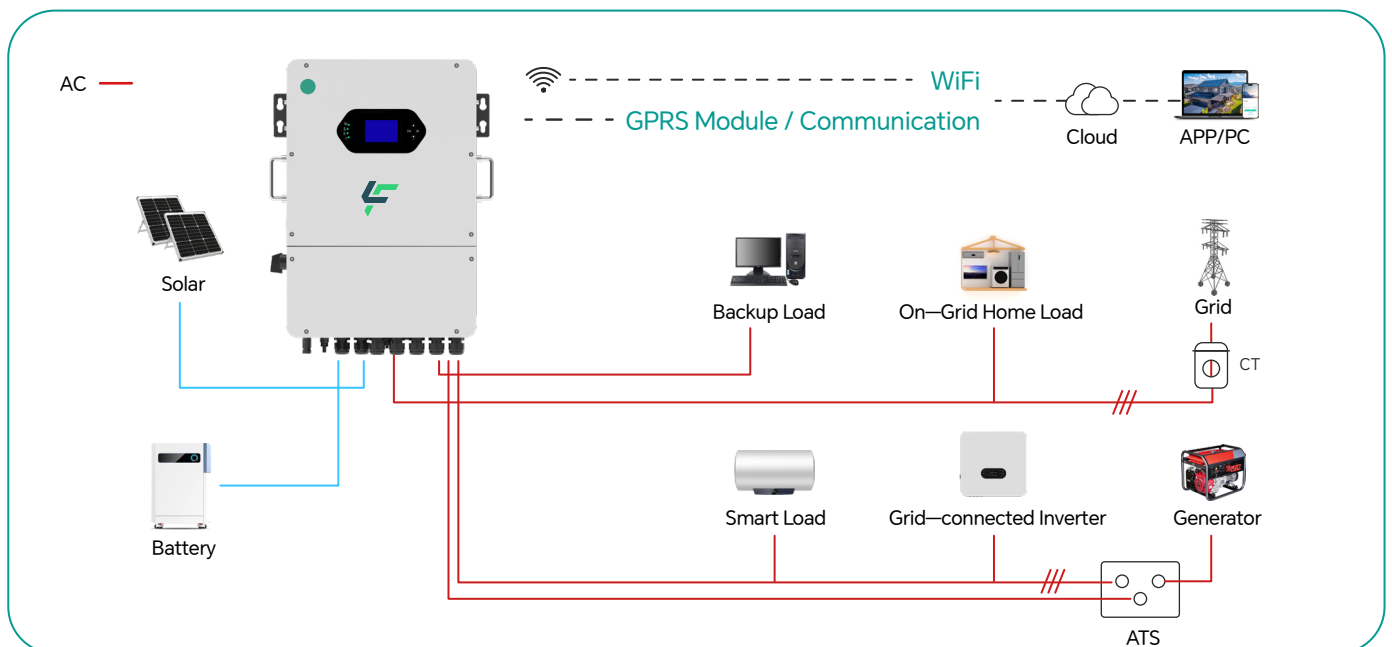


LFM02-P1M10K-EU
LFM02-P1M12K-EU



- Supports up to 12 units in parallel operation, meeting the demands of small-scale industrial and commercial energy storage applications.
- Grid-to-off-grid switching time is less than 10 ms, ensuring uninterrupted power supply to critical equipment.
- Allows configuration of up to 6 battery charging time periods and cut-off thresholds.
- Compatible with diesel generators for battery charging and load power supply.
- High system efficiency with intelligent air-cooling to prolong overall service life.
- Integrated communication interfaces including RS485, CAN, and WiFi (via App/PC Cloud monitoring).
- Smart load management, CT sensing, ATS support, and optional GPRS module for remote connectivity.

Supports maximum power charging and discharging modes.



Model	6K	8K	10K	12K
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Battery Input Data

Battery Type	Lead-acid or Li-ion			
Battery Voltage Range(V)	40~60			
Max. Charging Current(A)	135	190	220	250
Max. Discharging Current(A)	135	190	220	250
External Temperature Sensor	yes			

PV String Input Data

Max DC input Power(W)	9000	12000	13000	15600
PV Input Voltage(V)	370V(125V-500V)			
MPPT Range(V)	150~425V			
Full Load DC Voltage Range	300~425V			
Start-up Voltage(V)	125V			
PV input Current(A)	18+18	26+26	26+26+26	26+26+26
Max.PV Isc(A)	27+27	34+34	34+34+34	34+34+34
No. of MPPT Trackers	2	2	3	3
Number of Strings per MPPT Tracker	1+1	1+1	1+1+1	1+1+1

AC input/Output Data

Rated AC Output and UPS Power(W)	6000	8000	10000	12000
Max. AC Output Power(VA)	6600	8800	11000	13200
Peak Power(off grid)	Double rated Power,10S			
AC Input/output Rated Current(A)	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC input/Output Current(A)	30/28.7	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough(A)	40	50	60	70
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 220/230Vac 100/200Vac;110/220Vac.115/230Vac;120/240Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THD)	<3% (of nominal power)			
DC Current injection	<0.5% In			

Efficiency

Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	>99%

Certifications and Standards

Grid Regulation	IEC62116,IEC61727
EMC/Safety Regulation	EN61000-6-2/-4;EN62109-1,EN62109-2

General Data

Operating Temperature Range(°C)	-40~60°C,>55°C Derating		
Cooling	Smart cooling		
Noise(dB)	<50 dB		
Communication with BMS	RS485; CAN		
Monitoring mode	WiFi+APP		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 Years (10 Years Optional)		
Weight(kg)	22	25.5	36
Gross weight(kg)	26	29	39
Cabinet size(mm)(LxWxH) (Excluding connectors and brackets)	490x340x256.22	560x340x257	629.9x430x256

Packing parameters

Outer box dimensions	680x440x340(mm)	760x530x340(mm)
Pallet dimensions	900x700x120(mm)	1100x800x120(mm)
Pallet 20GP	6 layers:240pcs;7160kg	6 layers:168pcs;6860kg
Pallet 40GP	6 layers:516pcs;15394kg	6 layers:360pcs;14700kg
Pallet 40HQ	7 layers:602pcs;17888kg	7 layers:420pcs;17100kg
Without pallet 20GP	6 layers:301pcs;8729kg	6 layers:238pcs;9520kg
Without pallet 40GP	6 layers:623pcs;18067kg	6 layers:483pcs;19320kg
Without pallet 40HQ	7 layers:623pcs;18067kg	7 layers:483pcs;19320kg