

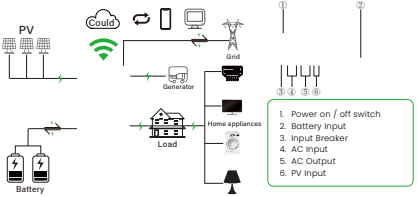
LOW
FREQUENCY INVERTER

2.4/3/4/5/8/10KW Features >

- Low no-load loss, less than half that of a high-frequency machine of the same power.
- Pure Sine Wave
- Output short circuit protection function
- Optional with MPPT solar controller (120A)
- Optional BMS communication function
- Optional with RS485 communication function

Pure sine wave | BMS Lithium Battery Activation | WiFi optional | High Efficiency | MPPT | Anti-shock design terminal | Voltage Multiple Points | Smart battery charging design

Connection Overview



Bottom view

1. Power on / off switch
2. Battery Input
3. Input Breaker
4. AC input
5. AC Output
6. PV Input

TECHNICAL PARAMETER

Model	LF02K4-24ML	LF03K0-24ML	LF04K0-24ML	LF05K0-24ML	LF08K0-48ML	LF10K0-48ML
AC Input						
Power input	220VAC (standard) / 110VAC (custom)					
Input voltage range	220V Model: 154-264VAc±3V (Normal Mode) 185-264VAc±3V (UPS Mode) 110V Model: 77-132VAc±3V (Normal Mode) 92-132VAc±3V (UPS Mode)					
Input frequency	50/60Hz±5%					
AC Output						
Rated Capacity	2400W	3000W	4000W	5000W	8000W	10000W
AC output voltage	220V Model: 154-264VAc±3V (Normal Mode) 185-264VAc±3V (UPS Mode) 110V Model: 77-132VAc±3V (Normal Mode) 92-132VAc±3V (UPS Mode)					
AC output frequency	50/60Hz±5%					
Inverter output voltage	220VAC±10% (110VAC±10%)					
Inverter output frequency	50Hz or 60Hz ±1%					
Wave Form	Pure Sine Wave					
Battery						
Battery Type	Lead-acid battery / Water battery / Lithium battery					
Battery voltage	24VDC / 48VDC					
Battery charging voltage	27.4VDC / 54.8VDC					
Charger (PV / AC)						
Max. PV array power	1600W	Note: Factory standard is for high current (MPPT) solutions. For high PV solutions, please specify in your order. High Current Solution (150V/120A): 24V: 3200W / 48V: 6400W High PV Solution (245V/100A): 24V: 2700W / 48V: 5400W				
PV input voltage range (MPPT)	MPPT 30V~150VDC	High current solution: 24V: 30~150VDC / 48V: 60~150VDC High PV solution: 24V: 30-245VDC / 48V: 60-245VDC				
Max. PV Input Voltage	MPPT 150VDC	High current solution: 150VDC / High PV solution: 245VDC				
Optimal Vmp working range	MPPT 30~105VDC	High current solution: 24V: 30~105VDC / 48V: 60~105VDC High PV solution: 24V: 30-170VDC / 48V: 60-170VDC				
Max. solar charging current	60A	High current solution: 120A / High PV solution: 100A				
Max. AC charging current	30A (default 40A) 25A (default 20A)	83A (default 50A) 31A (default 25A)	104A (default 83A) 41A (default 33A)	83A (default 66A) 52A (default 42A)	83A (default 66A)	104A (default 83A)
Conversion time	≤10ms (UPS mode) / ≤20ms (INV mode)					
Peak load ratio	MAX) 3:1					
Standby power consumption (W)	Toroidal transformer (applied with adhesive) 24V machine: 16W / 48V machine: 32W					
Protection function	Mains power: Input overcurrent protection without fuse. Inverter status: Overload protection, short circuit protection, undervoltage protection, battery reverse connection protection (fuse).					
Interface						
Status display	Color segment display with LED display The page up/down keys to view parameters such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, and load current LED display shows mains power, charging status, inverter status, and fault status					
Sound prompts	The buzzer emits different alarm sounds depending on the fault code, distinguished by long and short tones					
General Data						
Operating temperature	-10℃~50℃					
Storage temperature	-15℃~45℃					
Relative temperature	10℃~90℃ (No condensation)					
Noise	<45dB					
product size / packing size (mm)	445×310×125mm / -			585×400×185mm / -		
Net / Gross Weight (kg)	15.4kg / -	18kg / -	20.4kg / -	27.5kg / -	38.9kg / -	51kg / -