

LOW FREQUENCY SOLAR INVERTER



The low-frequency solar inverter uses industrial frequency technology to accurately convert DC power into high-quality 220V, 50Hz mains power with low loss and stable output. It has higher reliability and strong load capacity, and is particularly good at handling impact loads and suppressing harmonic interference. The device is equipped with intelligent CPU control and SPWM modulation technology to achieve pure sine wave output, compatible with multiple types of loads, fast response and excellent anti-interference. It is an ideal choice for scenarios with high stability requirements such as power systems, communications, medical care, and homes.



Pure sine wave output



support WIFI / GPRS



MPPT Efficiency max 98%



DC Start & Automatic Self-Diagnostic Function



BMS function for lithium battery

PRODUCT PARAMETERS

Product Model	LF-1.6K24V	LF-2.4K24V	LF-3K24V	LF-5K48V	LF-10K48V
AC Input Voltage	220VAC				
Input Voltage Range	154-264VAC $\pm$ 3V(Nor Model)、185-264VAC $\pm$ 3V(UPS model)、175-285VAC $\pm$ 3V(AVR Type)				
Input Frequency	50/60Hz $\pm$ 5%				
Rated Output Power	1600W	2400W	3000W	5000W	10000W
Apparent Power	2000VA	3000VA	4000VA	6000VA	12500VA
Output waveform	Pure sine wave				
Battery Type	lead-acid battery,Gel battery、 water battery、 Lithium battery				
Battery voltage	24V	24V	24V	48V	48V
Battery Charging Voltage	13.7VDC/27 /54VDC	13.7VDC/27 /54VDC	13.7VDC/27 /54VDC	54VDC	54VDC
Maximum PV array power	1600W	1600W	1600W	6400W	6400W
MPPT Input Range	30V-150VDC	30V-150VDC	30V-150VDC	60V-150VDC	60V-150VDC
Open Circuit Voltage	150VDC	150VDC	150VDC	150VDC	150VDC
Maximum Solar Charging Current	60A	60A	60A	120A	120A
Maximum AC Charge Current	30A	18A	40A	50A	100A
Transfer Time	$\leq$ 10ms(UPS) / $\leq$ 20ms(INV)				
Protective Function	Mains input overcurrent fuse protection. Inverter: overload protection, short circuit protection, low voltage protection, etc. (with battery reverse connection protection board).				
Status Display	AC voltage, AC frequency, photovoltaic voltage, photovoltaic current, output voltage, output frequency, battery voltage, load current, etc				
Operating Temperature	0 $^{\circ}$ C~40 $^{\circ}$ C				
Storage Temperature	15 $^{\circ}$ C~45 $^{\circ}$ C				
Noise	< 45dB				
Product Size	345*254*105mm	345*254*105mm	465*310*135mm	545*400*200mm	545*400*200mm