



LOTUS ENERGIE
Reliable Energy Solutions

Lotus Solar Inverters



On-Grid Solar Dc to AC inverter 1000W 2000W 3000W 4000W 5000W 6000W

Pure Sine Wave Power Inverter DC 12V 24V 48V to AC



THE FUTURE-PROOF INVERTER FOR SMALL SELF-CONSUMPTION SYSTEMS.

With power categories ranging from 1.5 to 3.1 kW, the Lotus is perfect for households – and is especially suitable for self-consumption systems. The integrated energy management relay allows the self-consumption component to be maximised. A host of other smart features make the Fronius Galvo one of the most future-proof inverters in its class: for example, integrated datalogging, simple connection to the internet by WLAN, or plug-in card technology for retrofitting additional functions.

According to IEC 62109-1.

Unrestricted/restricted voltage range.

And at $U_{mpp \text{ min}}$ / $U_{dc,r}$ / $U_{mpp \text{ max}}$.

Also available in the light version





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LOTUS On-Grid Solar Inverter

LOTUS PV inverters take full account of the needs of end customers, with excellent performance at the same time, use LED as inverter status display, effectively improve product life. Using DSP digital control, could afford wide grid voltage range, have a full range of protection features; to maximize the benefits at the same time, greatly enhance the reliability of the product.

FEATURES

- High Frequency On Grid Solar Inverter
- Pure sine wave output
- Rate power: 3-6KW
- MPPT efficiency up to 99.50%
- Configurable AC/Solar input priority via LCD setting
- Multiple communications: USB,WIFI etc
- Monitoring inverters freely via mobile phones APP
- Fanless low-noise design
- IP65 water-proof and dust-proof

WIFI COMMUNICATION

You can download this app on your cellphone and monitor the whole system, you will know how much electricity the system generate and sell to utility.

INVERTER SYSTEM CONNECTION

This inverter adopts cutting-edge technology in photovoltaic fields. Higher conversion efficiency and lower energy losses are guaranteed to maximize satisfaction. With its reliable power grid support and high protective class, our inverters are compatible with different types of branded solar panels and is also ideal for commercial rooftop systems. The safe and reliable series is the first choice for residential, commercial installation and power plants.

Solar Inverter System Connection:

Power Inverter + Battery + Solar Panels + Grid + Application Loads

Available Support Functions





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Flexible

- System Sizing
- Retrofitting of Existing Power Plant
- Battery Technology Independence



Smart

- Full access and manage of the parameters through the EMS+
- Forecast-based battery charging
- Grid and Off-Grid functions already implemented



Available

- Modularity
- Smart spare parts management
- Easy replacement of the main components



Model	L1512	L2024	L3024	L5024	L8048	L10048
Capacity(VA)	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Input Voltage(DC)	12V	24V	24V	24V	48V	48V
Nominal Voltage	220VAC					
Voltage Range	154-265VAC (AC Model);185-264VAC+/-3V(UPS Model)					
Frequency	50-60HZ Auto sensing					
Power Factor	0.8					
Rated Power	1200W	1600W	2400W	4000W	6400W	8000W
Voltage	220VAC					
Frequency	50/60HZ					
Waveform	Pure Sine Wave					
Transfer Time (AC to DC)	<8ms					
Transfer Time (DC to AC)	<8ms					
Output Voltage Regulation	±10%					
Bypass Mode	Yes					
ECO Mode	Yes					
Efficiency	>98%					
Input Protection	Circuit Breaker					
Output Protection	Circuit Breaker					
Battery Type	AGM-Deep Cycle ,Gel/Up to 500Ah					
Charging Current	30A	28A	40A	65A	50A	65A
Low Level disconnect (Selectable)	10V or 10.5V	20V or 21V			40V or 42V	
PWM(Optional) controller Voltage	15VDC-30VDC	30VDC-60VDC			60VDC-105VDC	
MPPT(Optional) controller Voltage	15VDC-150VDC	30VDC-150VDC			60VDC-150VDC	
Max. PV array power	800W	1600W			3200W	
Max. PV array open circuit voltage	30VDC, MPPT:150VDC	PWM:60VDC, MPPT:150VDC			105VDC, MPPT:150VDC	
Max. solar charge current	60A					

Model	L1512	L2024	L3024	L5024	L8048	L10048
Capacity(VA)	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Protections	Over load, over temp, over charging, battery low, battery reverse connect, high AC voltage etc.					
LCD indicator status	AC input voltage/frequency, PV voltage/current , Output Voltage/Frequency, Battery voltage, Load current etc.					
LED indicator status	AC Line In:Green/Inverter:Green/Charging :Yellow/Alarm :Red					
LOW battery alarm	Audible alarm-5 seconds beeping					
Overload alarm	Audible alarm- continuous beeping					
Fault	Audible alarm- continuous beeping					
Temperature	0-40°C					
Humidity	-10°C~90°C Non condensing					
Accoustic Noise(db)	<55dB					
Size L*W*H(mm)	335*210*470				335*210*720	
Weight (kg)	14,5	17	19,5	25,3	38	42,7

