

Hybrid Inverter



Data sheet

Feature	Model	LP 1KVA	LP 2KVA	LP 3KVA	LP 4KVA	LP 5KVA
Default battery system		12V	24V		48V	
Inverter output	Rated power	1000VA/800W	2000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W
	Waveform	Pure sine wave				
	AC voltage	110/120VAC±5% or 230VAC±5%				
	Inverter Efficiency(Peak)	90%				
	Transfer time	10ms typical(For Personal computers);20ms typical(For Home Appliances)				
	Voltage	230VAC				
AC input	Selectable Voltage Range	170~280VAC(For personal Computers);90~280VAC(For Home Appliances)				
	Nominal Voltage	12V	24V		48V	
Battery	Floating voltage		27VDC		54VDC	
	Overcharge protection		31VDC		60VDC	
	Maximum AC charge current		20A or 30A		60A	
Solar charge&AC charge	Maximum PV array open		75VDC		145VDC	
	PV array MPPT voltage range		30~66VDC		60~115VDC	
	Standby power consumption		2W			
	Rated power		600W		3000W	
	Maximum solar charge	25A		50A		60A
	Maximum Efficiency		98%			
	Maximum AC charge current		20A or 30A			60A
Mechanical specification	Maximum charge current	25A	30A		120A	
	Product Dimension(mm)		100*272*355			140*295*540
	Net Weight(kg)	6.8	7	7.4		12.5
Other	Humidity	5% to 95% Relativ Humidity (Non-condensing)				
	Operating temperature	0°C to 55°C				
	Storage temperature	-15°C~ 60°C				

Introductions

Solar PV inverters is an electronic system that operates the photovoltaic(PV) modules in a manner that allows the modules to produce all the power they are capable of. The solar mate charge controller is a microprocessor-based system designed to implement the MPPT. It can increase charge current up to 30% or more compared to traditional charge controllers. This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC /solar charger priority, and acceptable input voltage based on different applications.

Application Diagram



Data sheet

Feature	Model	LMP 2KVA-24V	LMP3KVA-24V	LMP4KVA-48V	LMP 5KVA-48V
Default battery system		24V		48V	
Inverter output	Rated power	2000VA/1600	3000VA/2400	4000VA/3200	5000VA/4000
	surge power	4000VA	6000VA	8000VA	10000VA
	Waveform	Pure sine wave			
	AC voltage	110/120VAC±5% or 230VAC±5%			
	Inverter Efficiency	90%			
	Transfer time	10ms typical(For Personal computers);20ms typical(For Home Appliances)			
AC input	Voltage	230VAC			
	Selectable	170~280VAC(For personal Computers);90~280VAC(For Home Appliances)			
Battery	Nominal	24VDC		48VDC	
	Floating	27VDC		54VDC	
	Overcharge	31VDC		60VDC	
Solar charge&AC charge	Maximum AC	20A/30A		60A	
	Maximum PV	75VDC		145VDC	
	PV array MPPT	30~66VDC		60~115VDC	
	Standby power	2W			
	Rated power	600W		3000W	
	Maximum solar	25A		60A	
	Maximum AC	20A/30A		60A	
Mechanical specifications	Product	140*295*479mm		140*295*540mm	
	Net Weight(kg)	7	7.4		12.5
Other	Humidity	5% to 95% Relativ Humidity (Non-condensing)			
	Operating	0°C to 55°C			
	Storage	-15°C~ 60°C			

Features

- Pure sine wave inverter
- Equipped with MPPT/PWM solar controller
- Auto restart while AC is recovering
- Compatible to mains voltage or generator power
- Battery charging current by LCD display Settings
- Through the LCD screen set mains/PV input priority
- Online intelligent charging management, optimize the battery performance
- The output overload/short circuit output/thermal protection9. Through the LCD screen for household appliances and computers to set the input voltage range
- Cold start function