



FEATURES

1. LED and LCD display with multi-function , Real-time display of dynamic values.
2. Built-in PWM / MPPT solar charging controller , maximize the solar energy.(3K,5K)
3. Built-in automatic AC charger and automatic AC mains switcher . Switch time $\leq 5ms$.
4. MPPT High Transfer efficiency is above 90%.
5. Continuous stable pure sine wave output .
6. 3 times surge power , excellent loading capability.

Technical Parameter

PL-series

Model	PL-1KA	PL-1.5KA	PLP-1000	PL-3KVA	PL-5KVA
Rated capacity	(1000VA) 700W	1500VA (1000W)	1000W	3000VA (1800W)	5000VA (3000W)
Mains Input	220VAC(+5%)				
Input	50Hz/60Hz $\pm 2.5Hz$				
The Output	Pure sine wave				
Battery efficiency	81%	81%	83%	83%	85%
The utility efficiency	93%				
Output Voltage	AC220V $\pm 5\%$				
Output Frequency	50/60Hz $\pm 1\%$ (battery mode)				
Transfer time	8ms				
Battery	12V	12V	12V	24V	48V
Charge current	0-20A	0-20A	0-30A	0-30A	0-30A
Charging Current	/	/	30A(PWM)	60A(MPPT)	60A(MPPT)
Max PV Array open circuit voltage	/	/	50VDC	105VDC	105VDC
Display	Method LCD+LED				
Content	input/output voltage, Battery capacity,load capacity,machine mode,frequency				
Protect	Output short circuit Breakdown insurance of power status,Inverse shutdown				
Overload	When the load exceeds 105% ,the buzzer gives out an alarm sound and does not shut down.Load over 110%,120%,60 seconds protection shutdown;Load more than 130%, 10 seconds protection shutdown;Load overload 150%,0.5 second protection shutdown;				
High main voltage	Turn off power supply and inverter automatically				
Low battery voltage	The machine will automatically shut off the output,and the machine will automatically resume charging when the mains power is restored				
Over-term perature	To turn it off				
Work Environment	Temperature -10 - 50°C				
Altitude	$\leq 3000m$				



FEATURES

1. Automatic line-to-battery switchover
2. High efficient DC-to-AC conversion, minimized energy loss.
3. Rack Tower design for flexible placement.
4. Built-in enhanced charger.
5. Intelligent-stage charger controller for efficient charging and preventing overcharge.
6. Overload protection.
7. Auto restart once AC recovery.
8. Multi-function LED/LCD indications and buzzer alarms .

Technical Parameter

SON-series

Model	SON-1500VA	SON-2400VA
Input Nominal Voltage	220~240VAC	
Input Voltage Range	90~280VAC	
Input Nominal Frequency	50Hz or 60Hz(Auto Detection)	
Solar Nominal Voltage	18Vdc	36Vdc
Solar Charging Current	50A $\pm 1Amax$	
Output Voltage	$\pm 10\%$	
Output Frequency	50/60Hz $0.1Hz$	
Output Waveform	Modified Sine-wave	
Output Efficiency(AC to AC)	$>95\%$	
Output Efficiency(DC to DC)	$>80\%$	
Battery Norminal Voltage	12Vdc	24Vdc
Charger Charging Voltage	14.4DC	28.8DC
Charger Charging Current	15A20A $\pm 2Amax$	10A15A $\pm 1Amax$
Charger Overcharging Protection	16.0V	32.0V
Transfer Time	15-20ms typical(narrow range)40ms max(wide range)	
Audible Alarm Low Battery Voltage inbattery mode	Buzzing every 2 seconds	
Audible Alarm Overload	Buzzing every 0.5 seconds	
Audibl Alarm Fault	Buzzing continuously	
Environment Temperature	0~40°C	