



■ Features:

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload, short circuit, Reverse DC Polarity Protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 6 units only available for 4KVA/5KVA
- Optional remote panel available

POG1K-12/1K-24/2K-24/3K-24/4K-48/5K-48



■ System Diagram



Technical Data

Model	POG1K-12	POG1K-24	POG2K-24	POG3K-24	POG4K-48	POG5K-48
Rated Power	1500VA/1200W	1000VA/800W	2000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W
Rated output Voltage	230VAC					
Selectable Voltage Range	170-280VAC(For Personal Computers) 90-280VAC(For Home Appliances)					
Frequency Range	50Hz ± 2%					
OUTPUT						
AC Voltage Regulation(Bat. Mode)	230VAC± 5%					
Surge Power	3000VA	2000VA	4000VA	6000VA	8000VA	10000VA
Surge Power Capacity	110% 10seconds, 150% 2seconds, then stop and alarm					
Efficiency(Peak)	90%-93%	90%-93%	93%	93%	93%	93%
Transfer Time	10ms(For Personal Computers) 20ms(For Home Appliances)					
Waveform	Pure sine wave ; THD<5%					
BATTERY						
Battery rated Voltage	12VDC	24VDC	24VDC	24VDC	48VDC	48VDC
discharging Cut-off Voltage	10.5VDC	21VDC	21VDC	21VDC	42VDC	42VDC
Floating Charge Voltage	13.5VDC	27VDC	27VDC	27VDC	54VDC	54VDC
Overcharge Protection	15VDC	30VDC	30VDC	31VDC	60VDC	60VDC
SOLAR CHARGER&AC CHARGER						
Maximum PV Array Power	500W	600W	1440W	1500W	4000W	4000W
MPPT Range @ Operating Voltage	30VDC-66VDC	30VDC-66VDC	30VDC-66VDC	30VDC-66VDC	60VDC-115VDC	60VDC-115VDC
Maximum PV Array Open Circuit Voltage	75VDC	75VDC	75VDC	75VDC	145VDC	145VDC
Maximum Solar Charge Current	20A	25A	25A	25A	80A	80A
Maximum AC Charge Current	20A	30A	30A	30A	60A	60A
Maximum Charge Current	25A	30A	30A	30A	140A	140A
Maximum Efficiency	98%					
Standby Power Consumption	2W (quiescent current<1%)					
PHYSICAL						
Dimension, DxWxH(mm)	100X272X355	100X272X355	100X272X355	120X300X470	120X295X468	120X295X468
Net Weight(kgs)	7.0	7.2	7.5	8	11	11
OPERATING ENVIRONMENT						
Humidity	5% to 95%Relative Humidity(Non-condensing)					
Operating Temperature	-20 °C to 55 °C					
Storage Temperature	-30 °C to 60 °C					
Noise	<60dB at 2m					