

Off-Grid inverter With MPPT Charger



- 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 and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 4 units only available for 4K/5K

Off-Grid Inverter Selection Guide

MODEL	ISolar SM 1K-24	ISolar SM 1K-48	ISolar SM 2K-24	ISolar SM 3K-24	ISolar SM 3K-48	ISolar SM 4K-48	ISolar SM 5K-48
Rated Power	1000VA/800W	1000VA/1000W	2000VA/1600W	3000VA/2400W	3000VA/2400W	4000VA/3200W	5000VA/4000W
INPUT							
Voltage	120 VAC or 230 VAC			230 VAC			
Selectable Voltage Range	95-140 VAC or 170-280 VAC (For Personal Computers) 65-140 VAC or 90-280 VAC (For Home Appliances)			170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)						
OUTPUT							
AC Voltage Regulation (Batt. Mode)	110/120 VAC ± 5% (User selectable) or 230VAC ± 5%			230VAC ± 5%			
Surge Power	2000VA		4000VA	6000VA	8000VA	10000VA	
Efficiency (Peak)	90% - 93%			93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY & AC CHARGER							
Battery Voltage	24 VDC	48 VDC	24 VDC	24 VDC	48 VDC	48 VDC	
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	54 VDC	54 VDC	
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	62 VDC	60 VDC	
Maximum Charge Current	10A or 10A / 20A*	10A or 10A / 15A*	20A or 30A	20A or 30A	10A or 15A	20A or 30A	
SOLAR CHARGER							
Maximum PV Array Power	600 W	900 W	600 W	600 W	900 W	3000 W	
MPPT Range @ Operating Voltage	30VDC ~ 66VDC	60VDC ~ 88VDC	30VDC ~ 66VDC	30VDC ~ 66VDC	60VDC ~ 88VDC	60VDC ~ 115VDC	
Maximum PV Array Open Circuit Voltage	75 VDC	102 VDC	75 VDC	75 VDC	102 VDC	145 VDC	
Maximum Charging Current	25A	18A	30A	30A	18A	120A	
Maximum Efficiency	98%						
Standby Power Consumption	2 W						
PHYSICAL							
Dimension, D x W x H (mm)	128 x 272 x 355					140 x 295 x 540	
Net Weight (kgs)	7.4		7.6	8.0		12.5	13.5
OPERATING ENVIRONMENT							
Humidity	5% to 95% Relative Humidity(Non-condensing)						
Operating Temperature	0°C - 55°C						
Storage Temperature	-15°C - 60°C						

Product specifications are subject to change without further notice

MODEL	ISolar SM 1K-24	ISolar SM 1K-48	ISolar SM 2K-24	ISolar SM 3K-24	ISolar SM 3K-48	ISolar SM 4K-48	ISolar SM 5K-48
Inverter Power	800W	1000W	1600W	2400W	2400W	3200W	4000W
Pmax. generated from solar charger	25Amp, 600W	20Amp, 900W	25Amp, 600W	25Amp, 600W	20Amp, 900W	60Amp, 3000W	60Amp, 3000W
Best Panel Configuration	500Wp (250Wp x 2pcs)	1000Wp (250Wp x 4pcs)	500Wp (250Wp x 2pcs)	500Wp (250Wp x 2pcs)	1500Wp (250Wp x 6pcs)	3000Wp (250Wp x 12pcs)	3000Wp (250Wp x 12pcs)