

# ISolar V Off-Grid Inverter



ISolar SMV 1K-12 / ISolar SMV 2K-24  
 ISolar SPV 1K-12 / ISolar SPV 2K-24/  
 ISolar SPV 3K-24 / ISolar SMV 3K-24  
 ISolar SMV 3K-24 Plus / ISolar SPV 5K-48 / ISolar SMV 5K-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible with 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
- Optional anti-dusk kit

Off-Grid Inverter

## ISolar V Off-Grid Inverter Selection Guide

MODEL	ISoar SPV 1K-12	ISoar SMV 1K-12	ISoar SPV 2K-24	ISoar SMV 2K-24	ISoar SPV 3K-24	ISoar SMV 3K-24	ISoar SMV 3K-24 Plus	ISoar SPV 5K-48	ISoar SMV 5K-48	
Rated Power	1000VA/1000W		2000VA/2000W		3000VA / 3000W			5000VA / 5000W		
<b>INPUT</b>										
Voltage	230 VAC									
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)									
Frequency Range	50 Hz/60 Hz (Auto sensing)									
<b>OUTPUT</b>										
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%									
Surge Power	2000VA		4000VA		6000VA			10000VA		
Efficiency (Peak)	90% ~ 93%									
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)									
Waveform	Pure sine wave									
<b>BATTERY</b>										
Battery Voltage	12 VDC				24 VDC				48 VDC	
Floating Charge Voltage	13.5 VDC				27 VDC				54 VDC	
Overcharge Protection	16 VDC		31 VDC			33 VDC			63 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>										
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT	
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC	
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W	
MPP Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC	
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A	
Maximum AC Charge Current	20 A	20 A	20 A	25 A	25A	25A	60 A	60 A	60 A	
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A	
<b>PHYSICAL</b>										
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334			100 x 300 x 440	100 x 300 x 440	
Net Weight (kgs)	5.0	5.1	5.5	5.5	6.3	6.5	9.5	8.5	9.7	
Communication Interface	USB/RS232									
<b>ENVIRONMENT</b>										
Humidity	5% to 95% Relative Humidity (Non-condensing)									
Operating Temperature	-10°C to 50°C									
Storage Temperature	-15°C to 60°C									

Product specifications are subject to change without further notice.