

Solarwaves Series

SOLAR INVERTER



Icellpower Solarwave Inverter is a hybrid Inverter design that uses both energy from the sun and also from mains utility to charge the battery and also supply input to connected devices.

This unit comes equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for charging the battery bank.

- MPPT Controller up to 60A
- TCP/IP SNMP card for web monitoring
- Selectable input voltage range for home appliances and personal computers
- Compact design
- Configurable LCD Display
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Overload and short circuit protection
- Connect up to 5units in parallel *****

DATA SPECIFICATION

MODEL	SO1024	SO2024	SO3024	SO2024i	SO3024i	SO4048	SO5048	
Rated Output Power	800W	1600W	2400W	1600W	2400W	3200W	4000W	
Waveform	Pure Sine Wave							
Input								
Nominal DC Input Voltage	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	48Vdc	48Vdc	
Nominal Input Voltage	230Vac							
Selectable Voltage Range	170 - 280VAC (for personal Computers) 90 - 280VAC (for Home Appliances)							
Nominal Input Frequency Range	50/60Hz (Auto sensing)							
Output Short Circuit Protection	Line mode: Circuit Breaker Battery mode: Electronic Circuits							
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)							
Transfer Time	10ms (for personal computers) ,20ms (Appliances)							
Output Voltage Regulation	230Vac±5%							
Peak Efficiency	90%							
Overcharge Protection	5s@≥150% load; 10s@110%~150% load							
Surge Power	2000VA	4000VA	6000VA	4000VA	6000VA	8000VA	10000VA	
Saving Mode Power Consumption	<10W							
Utility Charging Mode								
Charging Current	10A/20A		20/30A					
Bulk Charging Voltage	Flooded Battery	29.2					58.4	
	AGM / Gel Battery	28.2					58.4	
Floating Charging Voltage	27Vdc					54Vdc		
Overcharge Protection	31VDC					62VDC		
Charging Algorithm	3-Step							
Solar Charging Mode								
Maximum PV Array Power	600W		1500W		3000W			
PV Array MPPT Voltage Range	30~66Vdc		60~115VDC		60~115VDC			
Max. PV Array Open Circuit Voltage	75VDC		145VDC					
Maximum Charging Current	25A		60A					
Minimum Battery Voltage for PV Charge	17Vdc					34Vdc		
Efficiency	98.0% Max.							
Physical								
Dimension- D x W x H (mm)	128 * 272 * 355					140 * 295 * 540		
Net Weight (kgs)	7.4	7.6	8		12.5	13.5		
Operating Environment								
Humidity	5% to 95% Relative Humidity(Non- Condensing)							
Operating Temperature	0C to 55C							
Storage Temperature	0C to 60C							

Subject to change without notification