



# Universal Inverter ORVALDI KS+

This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

## Main Features:

- 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



<b>MODEL</b>	<b>ORVALDI KS1K+ Solar Sinus</b>	<b>ORVALDI KS3K+ Solar Sinus</b>
Rated Power	1000VA/1000W	3000VA/3000W
<b>INPUT</b>		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)	
Frequency Range	50/60 Hz (Auto sensing)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt. Mode)	230 VAC $\pm$ 5%	
Surge Power	2000 VA	6000 VA
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
Overcharge Protection	16 VDC	33 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Maximum PV Array Open Circuit Voltage	55 VDC	80 VDC
PWM controller power	600 W	1200 W
Maximum Solar Charge Current	50 A	50 A
Maximum AC Charge Current	20 A	25 A
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	88 x 225 x 320	100 x 285 x 334
Net Weight (kg)	4,4	6,3
Communication Port	USB/RS-232	
<b>OPERATING ENVIRONMENT</b>		
Operating Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C do 50°C	
Storage Temperature	-15°C do 60°C	