

# ORVALDI MVIII5K

It is a modern, multifunctional device that combines the functions of an inverter, solar charger and battery charger to provide stable and uninterrupted power in one compact package. Thanks to its advanced technology and high efficiency, the inverter is ideal for both domestic renewable energy systems and professional installations. It supports a wide range of input voltages, allowing flexible adaptation to different power sources, and guarantees efficient energy conversion from photovoltaic panels, ensuring optimal use of available resources.

## Product features:

- Pure sine wave
- Configurable input voltage, charging current and AC/Solar priority (LCD panel)
- Compatible with mains and generators
- Automatic restart after power failure
- Overload, temperature and short-circuit protection
- Intelligent battery charging
- Cold start function
- Removable LCD module
- BMS ports: RS485, CAN-BUS, RS232
- Built-in WiFi, OTG USB, twilight filters



## Applications:

- home electronics,
- emergency lighting,
- alarm installation,
- telecommunications systems, VOIP,
- fiscal devices,
- servers and small computer networks (passive and active PFC),
- control and measurement equipment,
- medical equipment,



<b>MODEL</b>	<b>ORVALDI MVIII 5K</b>
Rated Power	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)	230 VAC $\pm$ 5%
Surge Power	10000VA
Efficiency (peak)	90 % ~ 93%
Transfer Time	15 ms (for Personal Computers) 20 ms (for Home Appliances)
Waveform	Pure sine wave
<b>BATTERY</b>	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger Type	MPPT
Maximum PV array Power	5000W
MPP Range at Operating Voltage	120 ~ 450 VDC
Maximum PV array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	100A
Maximum Charge Current	100A
<b>PHYSICAL</b>	
Dimensions, D x W x H (mm)	115 x 300 x 400
Net weight (kg)	10
Communication interface	USB/RS232/RS485/Bluetooth/Dry-contact
<b>ENVIROMENT</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.