



**ONGRID SINGLE PHASE SOLAR INVERTER**

**PRODUCT KEY FEATURES**

- 👑 Ongrid single phase MPPT based inverter
- 👑 AC grid frequency: 50Hz / 60Hz
- 👑 High efficiency: up to 97.6%
- 👑 IP66 protection
- 👑 DC switch, anti-islanding & over current protection
- 👑 Wi-fi / 4G plug optional
- 👑 Max. PV voltage: 600V max
- 👑 Compatible with all major types of PV panels
- 👑 Type III DC SPD / Type III AC SPD

**Bluetooth**

**New Generation Design**

**Max Efficiency 97.6%**

**LCD with Touch Pad**

**Anti Dust Kit**

**IP66 Protection**

**Technical Data**

<b>MODEL</b>	<b>VMGI-3KW-SP</b>
<b>RATED POWER</b>	<b>3000VA/3000W</b>
<b>INPUT (DC)</b>	
Max. DC voltage	600VDC
Nominal voltage	380VDC
Start voltage	80V
MPPT voltage range	80V ~ 560V
Number of MPPT	1
Strings per MPPT	1
Max. input current per MPPT	13A
Max. short-circuit current per MPPT	15.6A
<b>OUTPUT (AC)</b>	
Nominal AC output power	3000W
Max. AC apparent power	3300VA
Nominal AC voltage	230V L-N
AC grid frequency range	50Hz / 60Hz ± 5Hz
Max. output current (A)	14.4A
Power factor	0.8 leading - 0.8 lagging
THDI	< 3%
<b>EFFICIENCY</b>	
Max. efficiency	97.60%
Euro efficiency	97.00%
<b>PROTECTION DEVICES</b>	
DC switch	Yes
Anti-islanding protection	Yes
Output over current protection	Yes
DC reverse polarity protection	Yes
DC / AC surge protection	DC type III; AC type III
Insulation detection	Yes
AC short circuit protection	Yes
<b>GENERAL SPECIFICATION</b>	
Dimensions, W*H*D (mm)	350*290*120
Weight (Kgs)	8
<b>ENVIRONMENT</b>	
Operating temperature range	-25°C ~ +60°C
Cooling type	Natural convection
Max. operating altitude	4000 m
Max. operating humidity	0 - 100%
AC output terminal type	Quick connector
IP class	IP66
Topology	Transformer-less
Communication interface	RS-485 / Wi-fi / 4G
Display	LCD / Bluetooth + App