



HYBRID SOLAR INVERTER IVGM5048



Pure sine wave inverter.



Built-in MPPT solar charge controller.



Configurable input voltage range for home appliances and personal computers via LCD setting.



Configurable battery charging current based on applications via LCD setting.



Configurable AC/Solar Charger priority via LCD setting.



Compatible to mains voltage or generator power.



Auto restart while AC is recovering.



Inverter running without battery.



Lithium battery activation function.



Cold start function.

Specification

Model	IVGM5048
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	100A/100A
Max. charging and discharging power	5000W
Battery type	Li/Lead-acid
DC Input Data (PV side)	
Max. recommended PV power	6500W (3500W for single PV)
Max. PV voltage	550V
Start voltage	130V
PV voltage range	90V~550V
MPPT voltage range	100V~500V
MPPT Voltage Range for Full Load	220V~500V
Nominal voltage	360V
Max. input current	15A/15A
Max. shorted current	18A/18A
Number of MPP trackers / strings per MPP tracker	2/1
Grid Data	
Nominal Input Voltage	230Vac
Input Voltage Range	184~264.5Vac*
Nominal grid frequency	50/60Hz*
Max. input current	40A
Max. Charge Current	100A
Max. AC output power	5000W
AC Output Rated Current	21.7A
Max. output current	25A
Max. Continuous AC Passthrough	30A
Power factor	>0.99
Displacement power factor	0.8leading; 0.8lagging
THDI	<3%
AC Output Data(Back Up)	
Rated output power	5000VA/5000W
Max. Output current	30A
Rated AC output voltage	230Vac
Rated AC output frequency	50/60Hz
Efficiency	
Max. efficiency	97.6%
Euro efficiency	97.0%
MPPT efficiency	99.9%
Protection	
Output over current protection	Integrated
Output over power protection	Integrated
Output shorted protection	Integrated
Anti-islanding protection	Integrated
GFCI Protection	Integrated
Insulation Resistor Detection	Integrated
General Data	
Operating temperature range	-25°C~60°C, >45°C Derating
Protection degree	IP65
Relative humidity	100%
Cooling concept	Nature
Altitude	2000m
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor module	Wi-Fi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	5 years
Grid Regulation	VDE-AR-N 4105; G99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;
Safety Regulation	IEC 62109-1/2, IEC 62040-1
EMC	EN61000-6-1, EN61000-6-3
Net Weight(KG)	34.2KG
Gross Weight(KG)	38.6KG
Product Dimension(D*W*H)	493*530*203mm
Package Dimension(D*W*H)	632*585*315mm

*According to local grid-connected standards