

# Hybrid Solar Inverter

## IVGM Series High-voltage | Three Phase

### Features

-  Supports WiFi monitoring and Fsolar smart cloud monitoring system.
-  Seamless power supply switching within 10ms.
-  Configurable parameters and working mode via LCD touch screen.
-  Programmable supply priority for battery or grid.
-  Programmable multiple operation modes: On grid, off grid and UPS.
-  8-channel PV, 4-channel MPPT, 1.3 times over configuration capacity.
-  2 independent battery inputs, effectively reducing inter-cluster circulation.
-  Wide battery voltage input and high battery charge and discharge current up to 50A.
-  Programmable generator port, support smart load and micro inverter access.
-  IP65 protection level.
-  12pcs in parallel maximum.
-  Auto restart while AC is recovering.



**IVGM50KHP3G1**

Model	IVGM50KHP3G1
<b>Battery Input Data</b>	
Battery Type	LFP (LiFePO4)
Battery Voltage Range	160~800Vdc
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
Number of Battery Input	2
<b>PV String Input Data</b>	
Max. DC Input Power	65KW(16KW for Single PV)
Max. DC Input Voltage	1000Vdc
Min. DC Input Voltage	150Vdc
Start-up Voltage	250Vdc
Rated DC Input Voltage	600Vdc
MPPT Range	200~850Vdc
Full Load DC Voltage Range	450~850Vdc
PV Input Current	36+36+36+36(A)
Max. PV Isc	55+55+55+55(A)
No. of MPP Trackers	4
No. of Strings Per MPP Tracker	2
<b>AC Output Data</b>	
Rated AC Output Power	50 KW
Max. AC Output Power	55 KW
AC Output Rated Current	72.5 A
Max. AC Current	79.7 A
Rated AC Voltage	220/380, 230/400 Vac (-20%~+15%)
AC Wiring Mode	3L+N+PE
Rated AC Frequency	50 /60 Hz (45~55Hz/55~65Hz)
THDI	<3% (At Rated Power)
Power Factor	0.8( Leading) to 0.8( Lagging)
<b>Certification and Standards</b>	
Grid Regulation	NTS & UNE217001 & UNE217002、CEI 0-21、NRS 097-2-1、NC RFG(Poland)、VDE 4105、G99、EN 50549-1、EN 50549-1+Netherlands
Safety Regulation	EN 62477-1、IEC 62109-1/-2
EMC	IEC/EN 61000-6-2/4、EN/IEC 61000-3-11/12
<b>General Data</b>	
Net Weight	85.6KG
Gross Weight	98.4KG
Product Dimension	940*582*340MM
Package Dimension	1110*770*463MM
Protection Degree	IP65
Operating Temperature Range	-25 to 60°C(> 50°C Derating)
Cooling	Smart Cooling
Communication with BMS	RS485,CAN
Monitor Module	WiFi/GPRS
Installation Style	Wall-mounted
Warranty	10 Years

\*Refer to FelicitySolar's Warranty Policy for applicable conditions.

