

# 50KVA

## Hybrid Solar inverter

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, 2 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.



**IVGM50KHP3G2**



Model	IVGM50KHP3G2
<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	80KW
Max. DC Input Voltage	1000Vdc
Min. DC Input Voltage	150Vdc
Start-up Voltage	180Vdc
Rated DC Input Voltage	600Vdc
MPPT Range	150~850Vdc
Full Load DC Voltage Range	555~850Vdc
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>Safety and Standards</b>	
Safety and Standards	TYPE II(DC), TYPE II(AC)
Over Voltage Category	OVCII (DC), OVC III (AC)
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>Protection</b>	
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	
Battery Input Lightning Protection	
AC Output Lightning Protection	
Battery Input Reverse Polarity Protection	
Insulation Resistor Detection	
Residual Current Monitoring Unit	
Output Over Current Protection	
Output Short-Circuit Protection	
Output Over Voltage Protection	
Anti-islanding Protection	
<b>General Data</b>	
Net Weight	87.1KG
Gross Weight	107.1KG
Product Dimension	940*582*340MM
Package Dimension	1114*774*469MM
Protection Degree	IP65
Operating Temperature Range	-40 to 60°C(> 50°C Derating)
Humidity	0~ 95 % (No Condensation)
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.

