Felicitysolar®
Make life full of hope



# 20KVA

# Hybrid Solar Inverter

## IVGM Series Low-voltage | Three Phase

## Features

- Supports WiFi monitoring and Fsolar smart cloud monitoring system.
- Supports 100% unbalanced three-phase output for flexible load connection.
- LCD touch screen for easy parameter and mode settings.
- Fit for outdoor installation with IP65 protection level.
- Uninterrupted power with EPS function.
- Compatible with generator, microgrid, and smart load port.
- Time of Use function to save on electricity cost.
- Battery charge and discharge current up to 350A.
- 2-channel MPPT, 4-channel PV, 1.6 times overconfiguration capacity.
- Max.10 units in parallel.
- Auto restart while AC is recovering.




**IVGM20KLP3G1**

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Official Website

Facebook

| Model | IVGM20KLP3G1 | IVGM18KLP3G1 | IVGM16KLP3G1 | IVGM15KLP3G1 | IVGM14KLP3G1 | IVGM12KLP3G1 | IVGM10KLP3G1 |
|---|---|---|---|---|---|---|---|
| **Battery Input Data** | | | | | | | |
| Battery Type | Li-Ion / Lead-acid | | | | | | |
| Battery Voltage Range | 40V~60V | | | | | | |
| Max. Charging/Discharging Current | 350A | 330A | 300A | 280A | 260A | 240A | 210A |
| **PV String Input Data** | | | | | | | |
| Max. PV Input Power | 32kW | 28.8kW | 25.6kW | 24kW | 22.4kW | 18kW | 15kW |
| Max. PV Input Voltage | 800V | | | | | | |
| Start-up Voltage | 160V | | | | | | |
| MPPT Voltage Rang | 160V-650V | | | | | | |
| Rated DC Input Voltage | 550V | | | | | | |
| Full Load DC Voltage Range | 550V-800V | 500V-800V | 445V-800V | 416V-800V | 389V-800V | 347V-800V | 289V-800V |
| Max. Operating PV Input Current | 36+36(A) | | | | | 26+26(A) | |
| Max. Input Short-Circuit Current | 54+54(A) | | | | | 39+39(A) | |
| No. of MPP Trackers /No. of Strings MPP Tracker | 2/2+2 | | | | | | |
| **AC Input/Output Data** | | | | | | | |
| Rated AC Input/Output Active Power | 20kW | 18kW | 16kW | 15kW | 14kW | 12kW | 10kW |
| Max. AC Input/Output Apparent Power | 22kVA | 19.8kVA | 17.6kVA | 16.5kVA | 15.4kVA | 13.2kVA | 11kVA |
| Peak Power (Off-grid) | 2 Times of Rated Power, 10s | | | | | | |
| Rated AC Input/Output Current | 28.9A | 26.1A | 23.2A | 21.8A | 20.3A | 17.4A | 14.5A |
| Max. AC Input/Output Current | 31.9A | 28.7A | 25.5A | 23.9A | 22.3A | 19.2A | 16A |
| Max. Continuous AC Passthrough (Grid to Load) | 70A | | | | | 45A | |
| Max. Output Overcurrent Protection | 92A | | | | | 65A | |
| Rated Input/Output Voltage/Range | 220/380,230/400Vac(-20%~+15%) | | | | | | |
| AC Wiring Mode | 3L+N+PE | | | | | | |
| Rated Input/Output Grid Frequency/Range | 50/60 Hz(45~55Hz/55~65Hz) | | | | | | |
| **Equipment Protection** | | | | | | | |
| DC Polarity Reverse Connection Protection | Yes | | | | | | |
| AC Output Overcurrent Protection | Yes | | | | | | |
| AC Output Overvoltage Protection | Yes | | | | | | |
| AC Output Short Circuit Protection | Yes | | | | | | |
| Thermal Protection | Yes | | | | | | |
| DC Terminal Insulation Impedance Monitoring | Yes | | | | | | |
| DC Component Monitoring | Yes | | | | | | |
| Ground Fault Current Monitoring | Yes | | | | | | |
| Arc Fault Circuit Interrupter (AFCI) | Yes | | | | | | |
| Power Network Monitoring | Yes | | | | | | |
| Island Protection Monitoring | Yes | | | | | | |
| Earth Fault Detection | Yes | | | | | | |
| DC Input Switch | Yes | | | | | | |
| Overvoltage Load Drop Protection | Yes | | | | | | |
| Residual Current (RCD) Detection | Yes | | | | | | |
| Surge Protection Level | Yes | | | | | | |
| | TYPE II(DC), TYPE II(AC) | | | | | | |
| **Certification and Standards** | | | | | | | |
| Grid Regulation | NRS 097-2-1, VDE4105, EN50549-1, AS 4777.2, GB / T 34120, GB / T 34133, GB / T 34129 | | | | | | |
| Safety EMC / Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | | | | |
| **General Data** | | | | | | | |
| Net Weight(KG) | 48.7KG | | | | | | |
| Gross Weight(KG) | 60.2KG | | | | | | |
| Product Dimension(MM) | 750x450x268MM | | | | | | |
| Package Dimension(MM) | 889x566x397MM | | | | | | |
| Protection Degree | IP65 | | | | | | |
| Communication with BMS | RS485/CAN | | | | | | |
| Monitor Module | WiFi/4G | | | | | | |
| Warranty | 5 Years/10 Years<br>The Warranty Period Donende tho Final Tnetallation Sito of Inverter More Info Please Refer to Warranty Policy | | | | | | |

*Refer to Felicitysolar's Warranty Policy for applicable conditions.

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