

12kW

Hybrid Solar Inverter

IVGM Series Low-voltage | Three Phase

Features



Supports WiFi monitoring and Fsolar smart cloud monitoring system.



4-channel PV, 2-channel MPPT, 1.6 times overconfiguration capacity.



Time of Use function to save on electricity cost.



Auto restart while AC is recovering.



Fit for outdoor installation with IP65 protection level.



Customizable battery charge / discharge scheduling.



Supports 100% unbalanced three-phase output for flexible load connection.



Max. 10 units in parallel.



IVGM5~12KLP3G2



Model	IVGM5KLP3G2	IVGM6KLP3G2	IVGM8KLP3G2	IVGM10KLP3G2	IVGM12KLP3G2
Battery Input Data					
Battery Type	Li-Ion / Lead-acid				
Battery Voltage Range	40V-60V				
Max. Charging/Discharging Current	120A	135A	190A	210A	210A
PV String Input Data					
Max. PV Input Power	7.5kW	9kW	12kW	15kW	15kW
Max. PV Input Voltage	800V				
Start-up Voltage	160V				
MPPT Voltage Rang	200V-650V				
Rated DC Input Voltage	550V				
Full Load DC Voltage Range	250-650V		350-650V		
Max. Operating PV Input Current	20+20(A)		26+26(A)		
Max. Input Short-Circuit Current	30+30(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	5kW	6kW	8kW	10kW	10kW
Max. AC Input/Output Apparent Power	5.5kVA	6.6kVA	8.8kVA	11kVA	11kVA
Peak Power (Off-grid)	2 Times of Rated Power, 10s				
Rated AC Input/Output Current	7.3A	8.7A	11.6A	14.5A	14.5A
Max. AC Input/Output Current	9.0A	9.7A	12.6A	16.0A	16.0A
Max. Continuous AC Passthrough (Grid to Load)	45A				
Max. Output Overcurrent Protection	52A				
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	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)	37.8KG				
Gross Weight(KG)	47.4KG				
Product Dimension(MM)	634x444.5x255.2MM				
Package Dimension(MM)	771x526x398MM				
Protection Degree	IP65				
Communication with BMS	RS485/CAN				
Monitor Module	WiFi/4G				
Warranty	10 Years				

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

