felicitysolar®

Make life full of hope



3-12kW

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.



IVGM3-12KLP3G2

Guangzhou Felicity Solar Technology Co.,Ltd.

www.felicitysolar.com sales@felicitysolar.com

No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, China **(Only 10 Mins from Baiyun International Airport)**

Official Website

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Model	IVGM3KLP3G2	IVGM4KLP3G2	IVGM5KLP3G2	IVGM6KLP3G2	IVGM8KLP3G2	IVGM10KLP3G2	IVGM12KLP3G2
Battery Input Data							
Battery Type	Li-Ion / Lead-acid						
Battery Voltage Range	40V~60V						
Max. Charging/Discharging Current	70A	95A	120A	135A	190A	210A	240A
PV String Input Data							
Max. PV Input Power	4.5kW	6kW	7.5kW	9kW	12kW	15kW	18kW
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	3kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. AC Input/Output Apparent Power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power (Off-grid)	2 Times of Rated Power, 10s						
Rated AC Input/Output Current	4.4A	5.8A	7.3A	8.7A	11.6A	14.5A	17.4kVA
Max. AC Input/Output Current	4.8A	6.4A	9.0A	9.7A	12.6A	16.0A	19.2kVA
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)	37.1KG						
Gross Weight(KG)	46.6KG						
Product Dimension(MM)	634x444.5x255.2MM						
Package Dimension(MM)	775x530x404MM						
Protection Degree	IP65						
Communication with BMS	RS485,CAN						
Monitor Module	WiFi/4G						
Warranty	10 Years						

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

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