felicitysolar®

Make life full of hope



3-6kW

Hybrid Solar Inverter

IVGM Series | Low-voltage | Single Phase

Features

- Remote Monitoring via Fsolar APP
- Supports Single-phase/ Three-phase Output
- 90A~135A Battery Charging and Discharging Current
- Generator / Smart Load / Microinverter Compatible
- Time of Use Function
- 6kW-36kW Scalable Power
- IP65-rated Protection
- User-friendly Touchscreen



IVGM3-6KLP1G2

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	IVGM3KLP1G2	IVGM5KLP1G2	IVGM6KLP1G2
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range	40 V~60 V		
Max. Charging and Discharging Current	90 A/90 A	120 A/120 A	135 A/135 A
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
Number of Battery Input	1		
PV String Input Data			
Max. PV Access Power	7200 W	10000 W	12000 W
Max. PV Input Power	5760 W	8000 W	9600 W
Max. PV Input Voltage	500 V		
Start-up Voltage	125 V		
MPPT Voltage Range	150 V-425 V		
Rated PV Input Voltage	370 V		
Max. Input Short-Circuit Current	27 A+27 A		
Max. Operating PV Input Current	18 A+18 A		
No. of MPP Trackers/No.of String Per MPP Tracker	2/1+1		
Grid Data			
Rated AC Input/Output Active Power	3600 W	5000 W	6000 W
Max. AC Input/Output Apparent Power	3960 VA	5500 VA	6600 VA
Peak Power (off-grid)(W)	2 Times of Rated Power, 10s		
Rated AC Input/Output Current	16.4 A/15.7 A	22.8 A/21.8 A	27.3 A/26.1A
Max. AC Input/Output Current	18 A/17.3 A	25 A/24 A	30 A/28.7 A
Max. Continuous AC Passthrough (grid to load)	35 A	35 A	40 A
Rated Input/Output Voltage/Range	220V/230 0.85Un-1.1Un		
Grid Connection Form	L+N+PE		
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz		
Efficiency			
Max. Efficiency	97.6 %		
Euro Efficiency	96.5%		
MPPT Efficiency	> 99 %		
Equipment Protection			
DC Reverse Polarity Protection	Integrated		
AC Output Overcurrent Protection	Integrated		
Thermal Protection	Integrated		
AC Output Overvoltage Protection	Integrated		
AC Output Short Circuit Protection	Integrated		
DC Component Monitoring	Integrated		
Arc Fault Circuit Interrupter (optional)	Integrated		
Anti-islanding Protection	Integrated		
DC Switch	Integrated		
Insulation Impedance Detection	Integrated		
Residual Current Detection	Integrated		
Surge Protection Level	Integrated		
Interface			
Communication Interface	RS485/RS232/CAN		
Monitor Mode	WIFI/Bluetooth		
General Data			
Operating Temperature Range	-40°C~+60°C, >45°C Derating		
Protection Degree	IP65		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Net Welght	19.8 KG		
Gross Weight	24.5 KG		
Product Dimension	470x376x250.75 MM		
Package Dimension	598x454x348 MM		
Warranty	10 Years		
	the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy		
Type of Cooling	natural cooling		
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549,NRS 097,RD 140, UNE 217002,OVE-Richtlinie R25,G98,G99,VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

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

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