Felicitysolar®

Make life full of hope



8-25kW

Hybrid Solar Inverter

IVGM Series | High-voltage | Three Phase

Features

- Remote Monitoring via Fsolar APP
- Supports Single-phase/ Three-phase Output
- Wide Grid Standard Compatibility
- Generator / Smart Load / Microinverter Compatible
- Time of Use Function
- Max.12 Units in Parallel
- IP66-rated Protection
- User-friendly Touchscreen



IVGM8~25KHP3G3

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Official Website

Facebook

Model	IVGM8KHP3G3	IVGM9K9HP3G3	IVGM10KHP3G3	IVGM12KHP3G3	IVGM15KHP3G3	IVGM20KHP3G3	IVGM25KHP3G3
Battery Input Data							
Battery Voltage Range	160~700Vdc						
Max. Charging and Discharging Current	50A/50A						
Max. Charging and Discharging Power	8kW	9.9kW	10kW	12kW	15kW	20kW	25kW
Battery Type	LFP(LiFePO4)						
DC Input Data(PV side)							
Max.DC Access power	16kW	19.8kW	20kW	24kW	30kW	40kW	50kW
Max. DC Input Voltage	1000Vdc						
Start-up Voltage	180Vdc						
MPPT Range	150~850Vdc						
Rated DC Input Voltage	600Vdc						
PV Input Current	21A+21A			42+21 (A)		42+42 (A)	
No.of MPP Trackers / No.of Strings per MPP Tracker	2/1+1			2/2+1		2/2+2	
Grid Data							
Nominal Input Voltage	220/380Vac, 230/400Vac (-20%~+15%)						
Nominal Grid Frequency	50/60Hz (45~55Hz/55~65Hz)						
Max. AC Input/Output Apparent Power	8.8kVA	9.9kVA	11kVA	13.2kVA	16.5kVA	22kVA	27.5kVA
AC Input/Output Rated Current[1]	11.6A	14.3A	14.5A	17.4A	21.7A	29A	36.3A
Max. Output Current	12.8A	14.3A	16A	19.2A	23.8A	32A	39.8A
Max. Continuous AC Passthrough	40A			80 A			
AC Output Data (Back Up)							
Rated Output Power	8kW	9.9kW	10kW	12kW	15kW	20kW	25kW
Max. AC Current[2]	12.8A	14.3A	16A	19.2A	23.8A	32A	39.8A
Peak Power(off-grid) (1.5 times of rated power,10s)	12 kW	14.9 kW	15 kW	18 kW	22.5 kW	30 kW	37.5 kW
Rated AC Output Voltage	220/380Vac, 230/400Vac (-20%~+15%)						
Rated AC Output Frequency	50/60Hz (45~55Hz/55~65Hz)						
Protection							
DC Polarity Reverse Connection Protection	Integrated						
AC Output Overcurrent Protection	Integrated						
AC Output Overvoltage Protection	Integrated						
AC Output Short Circuit Protection	Integrated						
Thermal Protection	Integrated						
DC Terminal Insulation Impedance Monitoring	Integrated						
DC Component Monitoring	Integrated						
Ground Fault Current Monitoring	Integrated						
Arc fault circuit interrupter (AFCI)	Integrated						
Power Network Monitoring	Integrated						
Island Protection Monitoring	Frequency Shift						
Earth Fault Detection	Integrated						
DC input Switch	Integrated						
Overvoltage Load Drop Protection	Integrated						
Residual Current (RCD) Detection	Integrated						
Surge Protection Level (TYPE II(DC), TYPE II(AC))	Integrated						
General Data							
Operating Temperature Range	-40 to 60 °C (>45 °C derating)						
Pollution degree	PD2 for inter of unit, PD3 for outer of unit						
Protective class	Protective class I						
Decisive Voltage Class	DVC B:Grid port,Bakup Load and Home Load port,PV Input,Battery Input.DVC A:Meter,BMS,RS485,DRM,PARA1,PARA2						
Protection Degree	IP66						
Cooling Concept	Smart Cooling						
Communication with BMS	CAN / Rs485						
Topology	Non-isolated						
Monitor Module	WiFi						
Display	LCD + LED						
Installation Style	Wall-mounted						
Warranty	5 Years/10 Years						
Grid Regulation	NRS 097-2-1, VDE 4105, EN 50549-1, AS 4777.2, GB/T 34120, GB/T 34133, GB/T 34129						
Safety Regulation & EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Net Weight	39.4 kg						
Gross Weight	48.6 kg						
Product Dimension	642x445x237.5 mm						
Package Dimension	789x568x367 mm						

[1]&[2] Data based on rated AC voltage 230/400 Vac.

*Refer to Felicitysolar's Warranty Policy for applicable conditions.
*the Warranty Period Depends the Final Installation Siteof Inverter More Info Please Refer to Warranty Policy