

30kW

Hybrid Solar Inverter

IVGM Series | High-voltage | Three Phase



IVGM30KHP3G2

Features



AI-powered Forecasting & Personalized Energy Optimization



Remote Monitoring via FSolar APP



Supports Single-phase input, Three-phase Output



Wide Grid Standard Compatibility



Time of Use Function



Max. 12 Units in Parallel



IP65-rated Protection



User-friendly Touchscreen



Model	IVGM30KHP3G2
Battery Input Data	
Battery Type	LFP (LiFePO4)
Battery Voltage Range	160~800Vdc
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
Number of Battery Input	2
PV String Input Data	
Max. DC Access Power	60kW
Max. DC Input Power	48kW
Max. DC Input Voltage	1000Vdc
Min. DC Input Voltage	150Vdc
Start-up Voltage	180Vdc
Rated DC Input Voltage	600Vdc
MPPT Range	150~850Vdc
Full Load DC Voltage Range	444~850Vdc
PV Input Current	36+36+36(A)
Max. PV Isc	55+55+55(A)
No.of MPP Trackers	3
No.of Strings Per MPP Tracker	2
AC Output Data	
Rated AC Output Power	30kW
Max. AC Output Power	33kW
AC Output Rated Current	43.5A
Max. AC Current	47.9A
Rated AC Voltage	220/380, 230/400 Vac (-20%~+15%)
AC Wiring Mode	3L+N+PE
Rated AC Frequency	50 /60 Hz (45~55Hz/55~65Hz)
THDI	<3% (At Rated Power)
Power Factor	0.8(Leading) to 0.8(Lagging)
Safety and Standards	
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Over Voltage Category	OVCII (DC), OVC III (AC)
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
Protection	
PV Input Lightning Protection	Integrated
PV String Input Reverse	Integrated
Polarity Protection	Integrated
Battery Input Lightning Protection	Integrated
AC Output Lightning Protection	Integrated
Battery Input Reverse Polarity Protection	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output Short-Circuit Protection	Integrated
Output Over Voltage Protection	Integrated
Anti-islanding Protection	Integrated
General Data	
Net Weight	80KG
Gross Weight	101KG
Product Dimension	940*582*340MM
Package Dimension	1114*774*469MM
Protection Degree	IP65
Operating Temperature Range	-40 to 60°C(> 50°C Derating)
Humidity	0~ 95 % (No Condensation)
Cooling	Smart Cooling
Communication with BMS	RS485,CAN
Monitor Module	WiFi/GPRS
Installation Style	Wall-mounted
Warranty	10 Years

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

