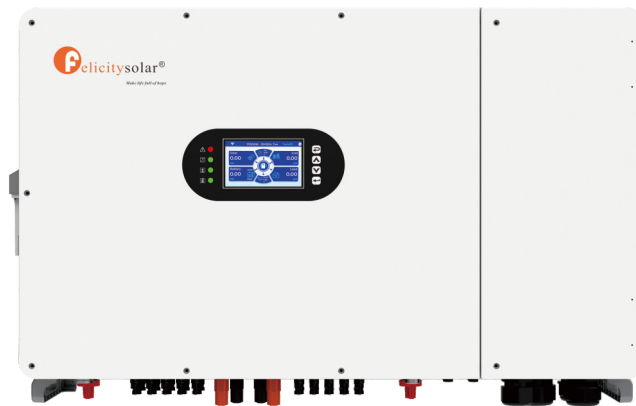


125kW

Hybrid Solar Inverter

IVGM Series | High-voltage | Three Phase



IVGM125KHP3G1

Features



0ms Grid-to-off-grid Transfer



Supports Single-phase Input, Three-phase Output



Active PID Recovery Function for Long-term Energy Yield



Remote Monitoring via Fsolar APP



Max. 12 Units in Parallel



2x PV Input Oversizing



Dual Independent Batteries for Stable High-power Operation



Wide Grid Standard Compatibility



IP66-rated Protection



Generator / Smart Load / Microinverter Compatible

Model	IVGM125KHP3G1	
Battery Input Data		
Battery Type	LFP (LiFePO4)	
Battery Voltage Range	160~950Vd.c.	
Max. Charging Current	120+120(A)	
Max. Discharging Current	120+120(A)	
Number of Battery Input	2	
PV String Input Data		
Max. DC Input Power	250kW	
Max. DC Input Voltage	1000Vd.c.	
Start-up Voltage	180Vd.c.	
Rated DC Input Voltage	600Vd.c.	
MPPT Range	150~950Vd.c.	
Full Load DC Voltage Range	555~950Vd.c.	
PV Input Current	10x45(A)	
Max. PV Isc	10x68(A)	
No.of MPP Trackers	10	
No.of Strings Per MPP Tracker	2	
AC Input/Output Data		
Rated AC Input/Output Power	125kW	
Max. AC Input/Output Power	137kVA	
AC Input/Output Rated Current	181.2A	
Max. AC Input/Output Current	198.6A	
Max. Output Overcurrent Protection (A)	270 A	
Max. AC Bypass (grid to load)	270 A	
Single Phase Peak Power (off-grid)	1.5 times of rated power, 10s	
Rated AC Voltage	220/380,230/400 Vac (-20%~+15%)	
AC Wiring Mode	3L+N+PE	
Rated AC Frequency	50 /60 Hz (45~55 Hz/55~65 Hz)	
THDI	<3% (At Rated Power)	
Power Factor	0.8(leading) to 0.8(lagging)	
DC Injection Current	<0.5% In	
Safety and Standards		
Surge Protection Level	TYPE III(DC), TYPE III(AC)	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4110	
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 Polarity Protection	Integrated	
Battery Input Lightning Protection	Integrated	
Battery Input Reverse Polarity Protection	Integrated	
DC Component Detection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Arc Fault Monitoring (optional)	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Output Over Voltage Protection	Integrated	
Remaining Current (RCD) Monitoring	Integrated	
Overheat Protection	Integrated	
Anti-islanding Protection	Integrated	
AC Output Lightning Protection	Integrated	
General Data		
Protection Degree	IP66	
Operating Temperature Range	-40 to 60 °C (> 45 °C derating)	
Humidity	0~100 % (No condensation)	
Cooling	Smart cooling	
Altitude	4000 m	
Inverter Topology	Non-isolated	
Parallel Compatible	Up to 12 in parallel	
LCD/LED Display	LCD+LED	
Communication With BMS	RS485/CAN	
Monitor Module	WIFI/Bluetooth/4G/LAN(optional)	
Installation Style	Wall-mounted	
Warranty	10 years	
Net Weight (KG)	155.5KG	
Gross Weight (KG)	198KG	
Product Dimension(MM)	1271*810*364MM	
Package Dimension(MM)	1410*960*646MM	

*Product specifications may vary during continuous improvements. Please contact us for latest details.

*Refer to Felicitysolar's warranty policy for applicable conditions.