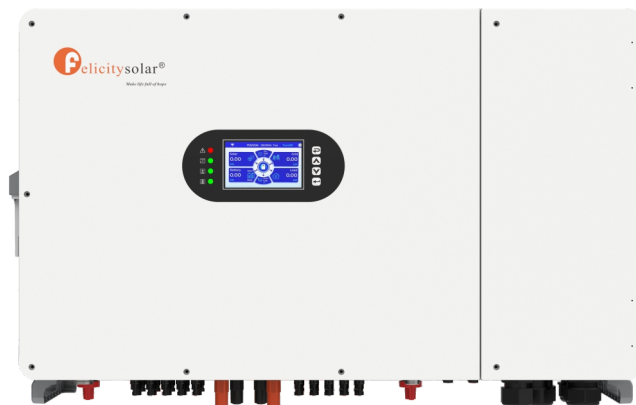


125kW

Hybrid Solar Inverter

IVGM Series | High-voltage | Three Phase



IVGM125KHP3G1

Features



0ms Grid-to-off-grid Transfer



Supports Single-phase/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	IVGM75KHP3G1		IVGM80KHP3G1		IVGM100KHP3G1		IVGM125KHP3G1	
Battery Input Data								
Battery Type	LFP (LiFePO4)							
Battery Voltage Range	160~1000Vdc							
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	150kW		160kW		200kW		250kW	
Max. DC Input Voltage	1000Vdc							
Start-up Voltage	180Vdc							
Rated DC Input Voltage	600Vdc							
MPPT Range	150~850Vdc							
Full Load DC Voltage Range	416~850Vdc		444~850Vdc		444~850Vdc		555~850Vdc	
PV Input Current	8x45(A)				10x45(A)			
Max. PV Isc	8x68(A)				40x68(A)			
No.of MPP Trackers	8				10			
No.of Strings Per MPP Tracker	2				2			
AC Input/Output Data								
Rated AC Input/Output Power	75kW		80kW		100kW		125kW	
Max. AC Input/Output Power	82.5kVA		88kVA		110kVA		137kVA	
AC Input/Output Rated Current	108.7A		116A		145A		181.2A	
Max. AC Input/Output Current	119.6A		127.5A		159.4A		198.6A	
Max. Output Overcurrent Protection (A)	218 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								
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							
Surge Protection Level	TYPE III(DC), TYPE III(AC)							
Over Voltage Category	OVC II(DC), OVC III(AC)							
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)	156KG							
Gross Weight (KG)	200KG							
Product Dimension(MM)	1271*814.5*379.5MM							
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.