

6kW

Hybrid Solar Inverter

IVGM Series | Low-voltage | Single Phase

Features



Remote Monitoring
via F-solar APP



Supports Single-phase/
Three-phase Output



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



IVGM6KLP1G2



Model	IVGM6KLP1G2
Battery Input Data	
Battery Type	Li-Ion /Lead-acid
Battery Voltage Range(V)	40V~60V
Max.Charging Current(A)	135A
Max.Discharging Current(A)	135A
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1
PV String Input Data	
Max. PV Access Power(W)	12000W
Max PV Input Power(W)	9600W
Max PV Input Voltage(V)	500V
Start-up Voltage(V)	125V
MPPT Voltage Range(V)	150V-425V
Rated Pv Input Voltage(V)	370V
Max Input Short-Circuit Current(A)	27+27
Max Operating PV Input Current(A)	18+18
No.of MPP Trackers/No.of StringPer MPP Tracker	2/1+1
Grid Data	
Rated Ac Input/Output Active Power(W)	6000
Max. AC Input/Output Apparent Power(VA)	6600
Peak Power (off-grid)(W)	2 times od rated power,10s
Rated Ac Input/Output Current(A)	27.3/26.1
Max. AC Input/Output Current(A)	30/28.7
Max. Continuous AC Passthrough(grid to load)(A)	40
Rated Input/Output Voltage/Range(V)	220V/230 0.85Un-1.1Un
Grid Connection Form	L+N+PE
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
Power Factor Adjustment Range	0.8 leading to 0.8lagging
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5%In
Efficiency	
Max.Efficiency	97.6%
Euro Efficiency	96.5%
MPPT Efficiency	>99%
Interface	
Communication Interface	RS485 / RS232 / CAN
Monitor Mode	WIFI / Bluetooth
General Data	
Operating Temperature Range	-40°C~+60°C, >45°C Derating
Permissible Ambient Humidity	0~100%
Permissible Altitude	2000m
Noise	<30dB
Ingress Protection(IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II (DC),OVC III (AC)
Net Weight(KG)	19.8KG
Gross Weight(KG)	23KG
Product Dimension(MM)	470*376*250.75MM
Package Dimension(MM)	578*454*348MM
Warranty[1]	The Warranty Period Depends the Final InstallationSite 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 140UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105, C10/11, G100
Safety EMC/standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2

[1]Refer to Felicitysolar's Warranty Policy for applicable conditions.

