Hybrid Solar Inverter

IVGM Series Low-voltage | Single Phase

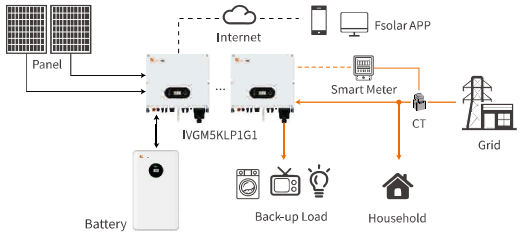
Features

- Enables real-time monitoring via WiFi.
- 48V low voltage battery, transformer isolation topology.
- Max. charging/discharging current of 100A.
- AC couple to retrofit existing solar system.
- Support storing energy from diesel generator.
- Seamless power supply switching within 20ms.
- Scalable expansion up to 6pcs in parallel.

IVGM5KLP1G1

Model	IVGM5KLP1G1
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	100A/100A
Max. charging and discharging power	5000W
Battery type	Li-Ion / Lead-acid
DC Input Data(PV side)	
Max. Recommended PV Power	6500W (3500W for Single PV)
Max. PV Voltage	550V
Start Oltage	130V
PV Voltage Range	90V-550V
MPPT Voltage Range	100V-500V
MPPT Voltage Range for Full Load	220V-500V
Nominal Voltage	360V
Max. Input Current	15A/15A
Max. Shorted Current	18A/18A
Number of MPP Trackers / Strings Per MPP Tracker	2/1
Grid Data	
Nominal Input Voltage	230Vac
Nominal Grid Frequency	50/60Hz
Max. Input Current	40A
Max. Charge Current	100A
Max. AC Output Power	5000W
AC Output Rated Current	21.7A
Max. Output Current	25A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement Power Factor	0.8(Leading) to 0.8(Lagging)
THDI	<3%
AC Output Data(Back Up)	
Rated Output Power	5000VA/5000W
Max. Output Current	30A
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
General Data	
Operating Temperature Range	-25°C~60°C,>45°C Derating
Protection Degree	IP65
Cooling Concept	Nature
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor Module	WiFi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 Years
Grid Regulation	CEI 0-21、G99、VDE 4105、EN 50549-1、NRS 097-2-1、C10/11、NTS & UNE217001 & UNE217002、PORTARIA N° 140 & 515
Safety Regulation	IEC 62109-1/-2
EMC	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12
Net Weight(KG)	32.4KG
Gross Weight(KG)	39.1KG
Product Dimension(MM)	530*493*228MM
Package Dimension(MM)	632*570*315MM

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

DC AC

Communication