Felicitysolar®

Make life full of hope



50KVA

Hybrid Solar Inverter

High-voltage | Three Phase

Features

- Supports WiFi monitoring and Fsolar smart cloud monitoring system.
- Seamless power supply switching within 10ms.
- Configurable parameters and working mode via LCD touch screen.
- Programmable supply priority for battery or grid.
- Programmable multiple operation modes: On grid, off grid and UPS.
- 8-channel PV,4-channel MPPT, 2 times over configuration capacity.
- 2 independent battery inputs, effectively reducing inter-cluster circulation.
- Wide battery voltage input and high battery charge and discharge current up to 100A(50A+50A).
- Programmable generator port, support smart load and micro inverter access.
- IP65 protection level.
- 12pcs in parallel maximum.
- Auto restart while AC is recovering.



IVGM50KHP3G2

Guangzhou Felicity Solar Technology Co.,Ltd.

www.felicitysolar.com sales@felicitysolar.com

No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, China **(Only 10 Mins from Baiyun International Airport)**

Official Website

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Model	IVGM50KHP3G2
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	100kW
Max. DC Input Power	80kW
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	550~850Vdc
PV Input Current	36+36+36+36(A)
Max. PV Isc	55+55+55+55(A)
No.of MPP Trackers	4
No.of Strings Per MPP Tracker	2
AC Output Data	
Rated AC Output Power	50kW
Max. AC Output Power	55kW
AC Output Rated Current	72.5A
Max. AC Current	79.7A
Rated AC Voltage	110V/190V, 115V/200V, 120V/208V, 127V/220V, 133V/230V, 200V/346V, 220V/380V, 230V/400V, 240V/415V, 277V/480V
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	NTS & UNE217001 & UNE217002、CEI 0-21、NRS 097-2-1、EN50549-1/-10+Poland Deviations、VDE 4105、G99、EN50549-1/-10、EN50549-1/-10+ Netherlands Deviations
Safety Regulation	EN 62477-1、IEC 62109-1/-2
EMC	IEC/EN 61000-6-2/4、EN/IEC 61000-3-11/12
Protection	
PV Input Lightning Protection	Integrated
PV String Input Reverse 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
	Integrated
General Data	
Net Weight	87.1KG
Gross Weight	107.1KG
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.

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