

6kW

Off-grid High-frequency Solar Inverter

IVAM Series AC-230V

Features



Remote Monitoring
via FSolar APP



6kW-72kW
Scalable Power



200% PV
Over-configuration



Clear Setup Wizard
for Quick Installation



IP65-rated Protection



Generator / Smart Load /
Grid Compatible



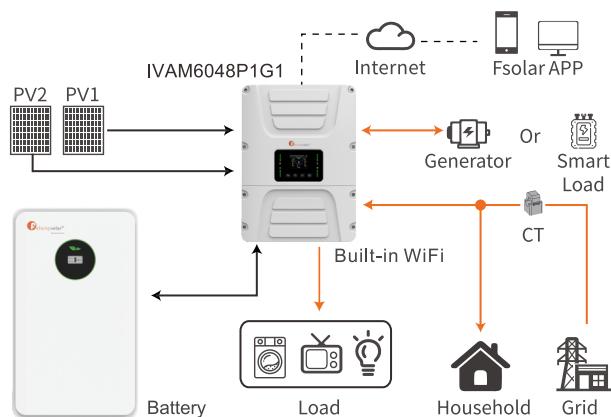
IVAM6048P1G1

System Configuration

■ DC

■ AC

--- Communication



Model	IVAM6048P1G1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range(V)	40~60
Max. Charging Current/Max. Discharging Current(A)	135
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Number of Battery Input	1
PV String Input Data	
Max. PV Access Power(W)	6000W for per PV
Max. PV Input Power(W)	9600
Max. PV Input Voltage(V)	500
Start-up Voltage(V)	120
PV Input Voltage Range(V)	90~500
MPPT Voltage Range(V)	90~425
Full Load MPPT Voltage Range(V)	300~425
Rated PV Input Voltage(V)	370
Max. Operating PV Input Current(A)	20+20
Max. Input Short-Circuit Current(A)	27+27
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1
AC Output Data	
Rated AC Output Power(VA/W)	6000
Max. AC Output Power(VA/W)	6000
Max. AC Output Current(A)	26.1
Peak Power(W)	2 Times of Rated power, 10s
Rated Output Voltage(V)	230
Output Type	L+N+PE
Rated Output Frequency	50Hz/60Hz
Output Voltage Waveform	Pure Sine Wave
AC Input Data(Grid and Generator)	
Max. Input Power to Battery(W)	6000
Rated Input Voltage(V)	230
Rated Input Frequency	50Hz/60Hz
Grid Input Current(A)	35
Generator Input Current(A)	35
Equipment Protection	
AC Output Overvoltage Protection	Yes
AC Output Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
DC Polarity Reverse Connection Protection	Yes
Thermal Protection	Yes
DC Terminal Insulation Impedance Monitoring	Yes
DC Component Monitoring	Yes
Ground Fault Current Monitoring	Yes
Arc fault circuit interrupter (AFCI)	Optional
Power Network Monitoring	Yes
Earth Fault Detection	Yes
DC Input Switch	Yes
Overvoltage Load Drop Protection	Yes
Surge Protection Level	TYPE II(DC), TYPE II(AC)
General Data	
Display	LCD+LED
Communication Interface	RS485, CAN
Monitor Mode	WIFI/LAN (Optional)
General Data	
Operating Temperature Range	-40 to +60°C, >45°C Derating
Ingress Protection (IP) Rating	IP65
Over Voltage Category	OVC II(DC), OVC III(AC)
Warranty	5 Years
Type of Cooling	Intelligent Air Cooling
Net Weight	13.5kg
Product Dimension	320x432x183mm
Package Dimension	412x532x270mm
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

*Disclaimer: This product is currently in pilot production. Final specifications, design, and features may differ from those presented here.

*© 2026 Guangzhou Felicity Solar Technology Co., Ltd. All rights reserved.

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



Facebook