

4.2kW

Off-grid High-frequency Solar Inverter

IVDM Series AC-230V

Features



Programmable multiple operation modes: on grid, off grid and UPS



Power During Blackouts
Built-in UPS Backup Function



Works On & Off Grid Flexible
for Different Power Needs



Higher Solar Efficiency
Built-in MPPT Technology



No Power Sent Back to Grid
Built-in Anti-Feed-in Function



Smart Monitoring Anywhere
WiFi & APP Remote Control



IVDM4224P1G3



Model	IVDM4224P1G3
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range(V)	20~30
Max. Charging Current/Max. Discharging Current(A)	160
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Number of Battery Input	1
PV String Input Data	
Max. PV Access Power(W)	10000
Max. PV Input Power(W)	8000
Max. PV Input Voltage(V)	500
Start-up Voltage(V)	60
PV Input Voltage Range(V)	60~500
MPPT Voltage Range(V)	60~425
Full Load MPPT Voltage Range(V)	300~425
Rated PV Input Voltage(V)	370
Max. Operating PV Input Current(A)	20
Max. Input Short-Circuit Current(A)	27
No. of MPP Trackers	1
Max. Inverter Backfeed Current to The Array(A)	0
AC Output Data	
Rated AC Output Power(VA/W)	4200
Max. AC Output Power(VA/W)	4260
Max. AC Output Current(A)	20
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
Total Current Harmonic Distortion THDi	<3%
AC Input Data(Grid)	
Max. Input Power to Battery(W)	4200
Rated Input Voltage(V)	230
Rated Input Frequency	50Hz/60Hz
Grid Input Current(A)	25
Equipment Protection	
DC reverse polarity protection	Yes
AC Output Overcurrent Protection	Yes
AC Output Overvoltage Protection	Yes
AC Output Short Circuit Protection	Yes
Thermal Protection	Yes
Overvoltage Load Drop Protection	Yes
DC Component Monitoring	Yes
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
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	IP6X
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Warranty	5 Years
Type of Cooling	Intelligent Air Cooling
Net Weight	8.3kg
Gross Weight	10.3kg
Product Dimension	403x313x137mm
Package Dimension	495x405x227mm
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

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

