

HYBRID SOLAR INVERTER

IVGM-LS Series

48V



FEATURES

- Support Wi-Fi for mobile monitoring
- 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
- Power supply can be switched automatically and switching time within 20ms

PRODUCT PARAMETERS

Model	IVGM4648-LS	IVGM5048-LS
Battery Input Data		
Battery Voltage Range	40V~60V	
Max. charging and discharging current	100A/100A	
Max. charging and discharging power	4600W	5000W
Battery type	Li-Ion/Lead-acid	
DC Input Data (PV side)		
Max. recommended PV power	6000W	6500W
Max. PV voltage	550V	
Start voltage	130V	
PV voltage range	90V~550V	
MPPT voltage range	100V~500V	
MPPT Voltage Range for Full Load	200V-500V	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	
Input Voltage Range	184~264.5Vac*	
Nominal grid frequency	50/60Hz*	
Max. input current	40A	
Max. Charge Current	100A	
Max. AC output power	4600W	5000W
AC Output Rated Current	20A	21.7A
Max. output current	25A	25A
Max. Continuous AC Passthrough	30A	
Power factor	>0.99	
Displacement power factor	0. Bleeding...0. Blagging	
THDI	<3%	
AC Output Data(Back Up)		
Rated output power	4600VA/4600W	5000VA/5000W
Max. Output current	30A	
Rated AC output voltage	230Vac	
Rated AC output frequency	50/60Hz	
Efficiency		
Max. efficiency	97.6%	97.6%
Euro efficiency	97.0%	97.0%
MPPT efficiency	99.9%	
Protection		
Output over current protection	Integrated	
Output over power protection	Integrated	
Output shorted protection	Integrated	
Anti-islanding protection	Integrated	
GFCI Protection	Integrated	
Insulation Resistor Detection	Integrated	
General Data		
Operating temperature range	-25°C-60°C, > 45°C Derating	
Protection degree	Ip65	
Relative humidity	100%	
Cooling concept	Nature	
Altitude	2000m	
Communication	RS232/RS485	
BMS Communication	CAN/RS485	
Monitor module	Wi-Fi/GPRS	
Display	LCD+LED	
Installation Style	Wall-mounted	
Warranty	10 years	
Grid Regulation	DE-AR-N 4105;99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;	
Safety Regulation	IEC 62109-1/2, IEC 62040-1	
EMC	EN61000-6-1, EN61000-6-3	
Net Weight	34.2KG	
Gross Weight	38.6KG	
Product Dimension	493*530*203mm	
Package Dimension	632*585*315mm	

• According to local grid-connected standards