



HYBRID SOLAR INVERTER IVGM SERIES

Features

-  Max. charging/discharging current of 100A
-  48V low voltage battery, transformer isolation topology
-  Support **Wi-Fi** for mobile monitoring
-  AC couple to retrofit existing solar system
-  Support storing energy from diesel generator
-  Power supply can be switched automatically and switching time within 20ms

Model	IVGM3648-LS		IVGM4048-LS		IVGM4648-LS		IVGM5048-LS	
Battery Input Data								
Battery Voltage Range	40V~60V							
Max. charging and discharging current	100A/100A							
Max. charging and discharging power	3600W		4000W		4600W		5000W	
Battery type	Li-Ion /Lead-acid							
DC Input Data (PV side)								
Max. recommended PV power	4700W		5200W		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	160V~500V		175V~500V		200V~500V		220V~500V	
Nominal voltage	360V							
Max. input current	15A/15A							
Max. shorted curent	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	3600W		4000W		4600W		5000W	
AC Output Rated Current	15.6A		17.4A		20A		21.7A	
Max. output current	19.5A		21.7A		25A		25A	
Max. Continuous AC Passthrough	30A							
Power factor	>0.99							
Displacement power factor	0.8leading...0.8lagging							
THDI	<3%							
AC Output Data(Back Up)								
Rated output power	3600VA/3600W		4000VA/4000W		4600VA/4600W		5000VA/5000W	
Max. Output current	30A							
Rated AC output voltage	230Vac							
Rated AC output frequency	50/60Hz							
Efficiency								
Max. efficiency	97.5%		97.5%		97.6%		97.6%	
Euro efficiency	96.7%		96.8%		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	VDE-AR-N 4105; G99/1; 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							

* According to local grid-connected standards