








IVGM-5048

## APPEARANCE



## FEATURE

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

Model	IVGM5048
<b>Battery Input Data</b>	
Battery Voltage Range	40V~60V
Max.charging and discharging current	100A/100A
Max.charging and discharging power	5000W
Battery type	Li-Ion /Lead-acid
<b>DC Input Data (PV side)</b>	
Max. recommended PV power	6500W
Max. PV voltage	550V
Start voltage	130V
PV voltage range	120V~550V
MPPT voltage range	150V~500V
Nominal voltage	360V
Max. input current	15A/15A
Max. shorted current	18A/18A
Number of MPP trackers / strings per MPP tracker	2/1
<b>Grid Data</b>	
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	5000W
Max. output current	24.5A
Power factor	>0.99
Displacement power factor	0.8leading~0.8lagging
THDI	<3%
<b>AC Output Data(Back Up)</b>	
Rated output power	5000VA/5000W
Max. Output current	40A
Rated AC output voltage	230Vac
Rated AC output frequency	50/60Hz
<b>Efficiency</b>	
Max. efficiency	97.6%
Euro efficiency	97.0%
MPPT efficiency	99.9%
<b>Protection</b>	
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
<b>General Data</b>	
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	5 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