



IVGM-5048

APPEARANCE



SIDE VIEW



FRONT VIEW



45° ANGLED VIEW

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



Power supply can be switched automatically and switching time within 20ms



Support storing energy from diesel generator

Model	IVGM5048
Battery Input Data	
Battery Voltage Range	40V~60V
Max.charging and discharging current	100A/100A
Max.charging and discharging power	5000W
Battery type	Li-Ion /Lead-acid
DC Input Data (PV side)	
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
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	5000W
Max. output current	24.5A
Power factor	>0.99
Displacement power factor	0.8leading~0.8lagging
THDI	<3%
AC Output Data(Back Up)	
Rated output power	5000VA/5000W
Max. Output current	40A
Rated AC output voltage	230Vac
Rated AC output frequency	50/60Hz
Efficiency	
Max. efficiency	97.6%
Euro efficiency	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	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