

42	Relay check failure	Restart the unit, if the error happens again, please return to repair center.
43	CAN data loss	1.Check if communication cables are connected well and restart the inverter. 2.If the problem remains, please contact your installer.
44	Host data loss	
45	Synchronization data loss	
46	The firmware version of each inverter is not the same.	1.Update all inverter firmware to the same version. 2.Check the version of each inverter via LCD setting and make sure the CPU versions are same. If not, please contact your installer to provide the firmware to update. 3.After updating, if the problem still remains, please contact your installer.
47	The inverter Settings are inconsistent	1.Through the LCD control button on the inverter, the parameters of the machine are set to the same as those of other machines. 2.If the problem persists, contact the after-sales service
48	Parallel installation is abnormal	Contact after-sales service for installation technical guidance
49	Parallel negative power protection	Restart the unit, if the error happens again, please return to repair center.
50	EEPROM failure	Restart the unit, if the error happens again, please return to repair center.
51	DSP1 communication failure	Restart the unit, if the error happens again, please return to repair center.
52	DSP2 communication failure	Restart the unit, if the error happens again, please return to repair center.

## Appendix

Model	IVGM4648	IVGM5048
<b>Battery Input Data</b>		
<b>Battery Voltage Range</b>	40V~60V	
<b>Max. charging and discharging current</b>	100A/100A	
<b>Max. charging and discharging power</b>	4600W	5000W
<b>Battery type</b>	Li-Ion /Lead-acid	
<b>DC Input Data (PV side)</b>		
<b>Max. recommended PV power</b>	6000W	6500W
<b>Max. PV voltage</b>	550V	
<b>Start voltage</b>	130V	
<b>PV voltage range</b>	90V~550V	
<b>MPPT voltage range</b>	100V~500V	
<b>MPPT Voltage Range for Full Load</b>	200V~500V	200V~500V
<b>Nominal voltage</b>	360V	
<b>Max. input current</b>	15A/15A	
<b>Max. shorted current</b>	18A/18A	
<b>Number of MPP trackers / strings per MPP tracker</b>	2/1	
<b>Grid Data</b>		
<b>Nominal Input Voltage</b>	230Vac	
<b>Input Voltage Range</b>	184~264.5Vac*	
<b>Nominal grid frequency</b>	50/60Hz*	
<b>Max. input current</b>	40A	
<b>Max. Charge Current</b>	100A	
<b>Max. AC output power</b>	4600W	5000W
<b>AC Output Rated Current</b>	20A	21.7A
<b>Max. output current</b>	25A	25A
<b>Max. Continuous AC Passthrough</b>	30A	
<b>Power factor</b>	>0.99	
<b>Displacement power factor</b>	0.8leading...0.8lagging	
<b>THDI</b>	<3%	