

HUAWEI SUN2000-100KTL-M1 Inverter Low Insulation Resistance Fault Indication Guide

HUAWEI single phase residential inverter SUN2000-100KTL-M1 inverter has followed the requirement of AS 4777.2:2015 to detect earth fault via check the insulation resistance value. This inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm monitoring. If an Earth Fault Alarm occurs, LED 1 and LED 2 will go red and fault code will occur in the app.

The fault is depicted in following table:

Alarm ID Alarm	Alarm Name	Alarm Severity	Possible Causes	Troubleshooting
2062	Low Insulation	Major	Cause ID = 1	1. Check the impedance of
	Resistance		1. The PV string is short-	the PV string to PE. If a
			circuited to PE.	short circuit occurs or the
			2. The PV string has	insulation is insufficient,
			been in a moist	rectify it.
			environment for a	2. Check that the PE cable
			long time and the	of the solar inverter is
			circuit is not well	correctly connected.
			insulated to ground.	3. If you are sure that the
				impedance is less than the
				default value in a cloudy or
				rainy environment, reset
				Insulation resistance
				protection.



The fault or alarm can be indicated through two different ways:

1. Inverter LED display:

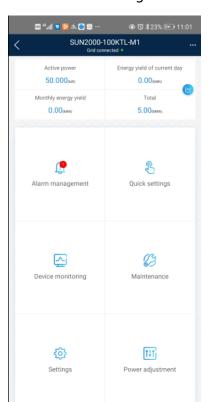
Category	Status		Description
Running indicator	LED2	LED4	
	Off	Steady red	Fault

2. FusionSolar App Indication:

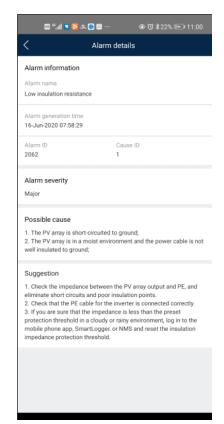
 When connecting FusionSolar App to inverter via external WLAN adaptor, low insulation resistance alarm or fault can be indicated via following interface by:

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Click 'Alarm Management'



Select "Low Insulation Resistance" alarm



 When user monitoring the PV plant registered in FusionSolar App, the low insulation resistance alarm or fault can also be indicated via following interface by:



Clicking the inverter icon in power flow diagram \rightarrow Select Alarm Info tab