

HUAWEI SUN2000-50KTL-M0 Inverter Low Insulation Resistance Fault Indication Guide

HUAWEI three phase inverter SUN2000-50KTL-M0 inverter has followed the requirement of AS 4777.2:2020 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 isdepicted in following table:

Alarm ID Alarm	Alarm Name	Alarm Severity	P	Possible Causes	Troubleshooting
2062	Low Insulation	Major	Cause ID = 1	Check the output	
2002	Resistance	iviajoi	•	A short circuit occurs	1. impedance of the PV array
				between the PV array	to ground. If there is a short
				and the ground.	circuit or lack of insulation,
			•	The PV array is in a	rectify it.
				moist environment and	2. Check that the PE cable of
				the power cable is not	the SUN2000 is correctly
				well insulated to	connected.
				ground.	3. If you are sure that the
					impedance is less than the
					preset protection threshold in
					a cloudy or rainy environment,
					log in to the mobile phone
					app, SmartLogger, or NMS
					and reset the insulation
					impedance protection
					threshold.

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

1. Inverter LED display:

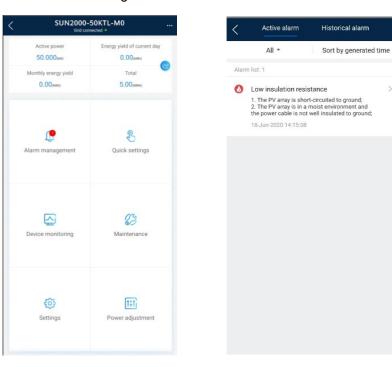
Category	Status		Description
Running indicator	LED1	LED2	
LED1 LED2	Steady red	Steady red	Fault



2. FusionSolar App Indication:

 When connecting FusionSolar App to inverter via its built-in WLAN communication, low insulation resistance alarm or fault can be indicated via following interface by:

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 -> Select Alarm info tab -> click 'Low Insulation



Resistance' active alarm



