

# HUAWEI SUN2000-100KTL-M1 Inverter

## Low Insulation Resistance Fault

### Indication Guide

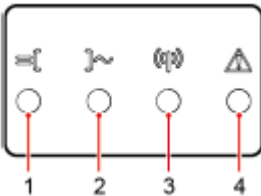
HUAWEI single phase residential inverter SUN2000-100KTL-M1 inverter has followed the requirement of AS 4777.2:2015 to detect earth fault via check the insulation resistance value. This inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm monitoring. If an Earth Fault Alarm occurs, LED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

The fault is depicted in following table:

<b>Alarm ID</b> <b>Alarm</b>	<b>Alarm Name</b>	<b>Alarm</b> <b>Severity</b>	<b>Possible Causes</b>	<b>Troubleshooting</b>
2062	Low Insulation Resistance	Major	Cause ID = 1 <ol style="list-style-type: none"><li>1. The PV string is short-circuited to PE.</li><li>2. The PV string has been in a moist environment for a long time and the circuit is not well insulated to ground.</li></ol>	<ol style="list-style-type: none"><li>1. Check the impedance of the PV string to PE. If a short circuit occurs or the insulation is insufficient, rectify it.</li><li>2. Check that the PE cable of the solar inverter is correctly connected.</li><li>3. If you are sure that the impedance is less than the default value in a cloudy or rainy environment, reset Insulation resistance protection.</li></ol>

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

### 1. Inverter LED display:

Category	Status		Description
Running indicator	<b>LED2</b>	<b>LED4</b>	
	Off	Steady red	Fault

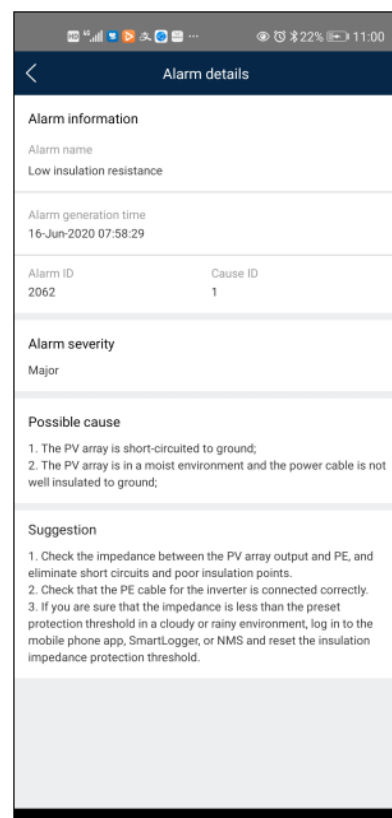
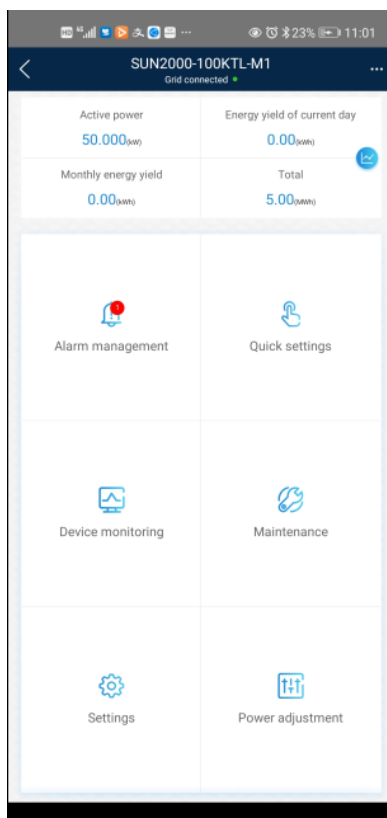
### 2. FusionSolar App Indication:

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

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:



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