

HUAWEI SUN2000-5-10KTL-M1 Inverter Low Insulation Resistance Fault Indication Guide

HUAWEI single phase residential inverter SUN2000-5/6/8/10KTL-M1 inverter has followed the requirement of AS 4777.2:2020 to detect earth fault via check the insulation resistance value. The fault is depicted 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		•	A short circuit exists	1. Check the impedance
				between the PV array	between the PV array output
				and the ground.	and the ground. If a short
			•	The PV array is in a	circuit occurs or the insulation
				moist environment and	is insufficient, rectify the fault.
				the circuit is not well	2. Check whether the PE
				insulated to the	cable of the SUN2000 is
				ground.	correctly connected.
					3. If you have confirmed that
					the impedance is lower than
					the specified protection
					threshold in a cloudy or rainy
					environment, log in to the app,
					SmartLogger, or NMS and set
					the Insulation resistance
					protection threshold.

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

1. Inverter LED display:

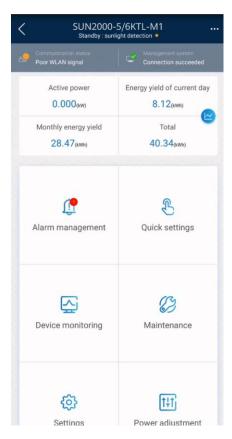
Category	Status		Description
Running indicator	LED1	LED2	
□ □ (Φ) LED1 LED2	Steady red	Steady red	Fault

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



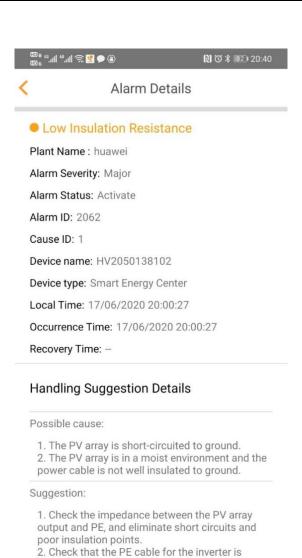
 When user monitoring the PV plant registered in FusionSolar App, the low insulation resistance alarm or fault can also be indicated via following interface by:

Clicking the inverter icon in power flow diagram -> Select Alarm info tab -> click 'Low Insulation



Resistance' active alarm





Clear