

# Sungrow inverter DC reverse connection protection

How do I fix a Sungrow inverter fault?

If the fault still exists, contact Sungrow Service. Stop and disconnect the inverter. Reset the input mode of the PV array. Wait for the inverter to return to normal. Disconnect the AC and DC switches, and reconnect the AC and DC switches 15 minutes later to restart the inverter. If the fault still exists, contact Sungrow Service.

Why is my Sungrow inverter NOT working?

Check whether the insulation between the ground cable and the live wire is normal. If the fault is not caused by the foregoing reasons and still exists, contact Sungrow Service. Wait for the inverter to return to normal. Disconnect the AC and DC switches, and reconnect the AC and DC switches 15 minutes later to restart the inverter.

How do I Reset my Sungrow inverter?

Stop and disconnect the inverter. Restart the inverter when the ambient temperature falls within the operation temperature range. Wait for the inverter to return to normal. Disconnect the AC and DC switches, and reconnect the AC and DC switches 15 minutes later to restart the inverter. If the fault still exists, contact Sungrow Service.

Can a Sungrow inverter be touched during Operation?

Only the DC/AC switch can be touched during operation. Operate the inverter by strictly following the descriptions in this manual to avoid unnecessary personal injury and property damage. Arc flash, fire or explosion may occur if done otherwise and SUNGROW will hold no liability for damages.

Max. efficiency Grid monitoring DC reverse polarity protection AC short-circuit protection Leakage current protection Surge protection Ground fault monitoring DC switch PV string current monitoring Arc fault ...

Fig-2: Reverse connection situation For non-isolated inverters, DC-side or AC-side ground faults can form a loop between the fault point and the electrical grid, which directly causes a fault current. In this ...

If all of the items mentioned above meet the requirements, proceed as follows to start up the inverter for the first time. step 1 Turn on the AC circuit breaker between the inverter and the grid. step 2 ...

1. Our inverter shows Branch breaker fault. Check if all DC branch breaker are CLOSED and observe the DC breaker status at Run- information. Leaving un-used DC switches also will trigger the alarm. ...

When the utility side phase monitoring devices are absence, and the system fully relies on inverter protection to shut down during the loss of phase fault at the utility side, SUNGROW recommends a ...

The DC switch is used to disconnect the DC current safely whenever necessary. The SG30CX is equipped with one DC switch to control the connection and disconnection of all DC terminals.



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DC Switch DC SPD DC EMI Filter DC Bus Inverter Circuit (DC/AC) AC Filter AC Relays AC EMI Filter

**PID Zero** The PID Zero function is applicable for both PV and DC-coupled PV plus storage systems. It can suppress PID during the day and intelligently repair PV panels damage caused by PID at ...

**High Yield Efficient** three-level topology, max. efficiency up to 99 % Full power operation without derating at 55 °C Max. DC/AC ratio up to 1.4

**PROVEN SAFETY** 2 strings per MPPT, no fear of string reverse connection Integrated DC switch, automatically cut off the fault 24h real-time AC and DC insulation monitoring **CIRCUIT DIAGRAM**

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