

# **Solar container communication station inverter grid connection shutdown**





## Overview

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How do you shutdown a solar inverter?

Method 1: Use the rapid shutdown function. Set Dry contact function to DI Rapid Shutdown. Connect the access switch to pins 7 and 5 of the inverter communications terminal. The switch is turned off by default. When the switch is turned on, rapid shutdown is triggered. Method 2: Turn off the AC switch between the solar inverter and the power grid.

How does a solar panel shutdown box work?

The shutdown box is installed between the solar panels and the inverter, and it contains relays that are powered by the power box. When the system needs to shut down, the relays cut off the connection between the solar panels and the inverter, reducing the voltage and ensuring that people can work around the system safely.

Why is wired communication important for Solar System monitoring & safety?

With the increased number of solar installations, importance of system monitoring and safety rises. In this trend, wired communications play a key role. Safety standards like SunSpec® Rapid Shutdown (RSD) which support NEC 2014, NEC2017 and UL1741 module-level rapid shutdown are built on wired communication interface.

What happens if a solar inverter is configured with optimizers?

When all PV modules connected to the solar inverter are configured with optimizers, the PV system shuts down quickly and reduces the output voltage of the PV string to below 30 V within 30 seconds. If optimizers are configured for some PV modules, the rapid shutdown function is not supported. Perform the following step to trigger rapid shutdown:



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Within the PV system, if the DC side is abnormal, the inverter will display a &quot;DC INTF&quot; alarm when it starts running. If this fault occurs, the inverter will disconnect from the grid



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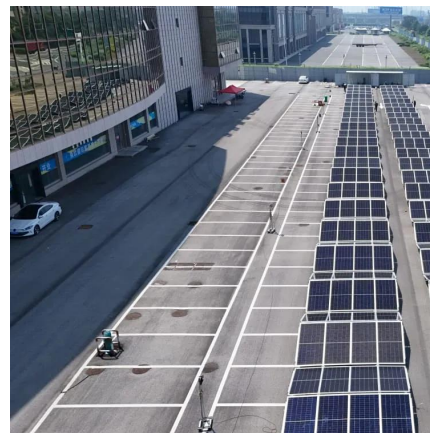


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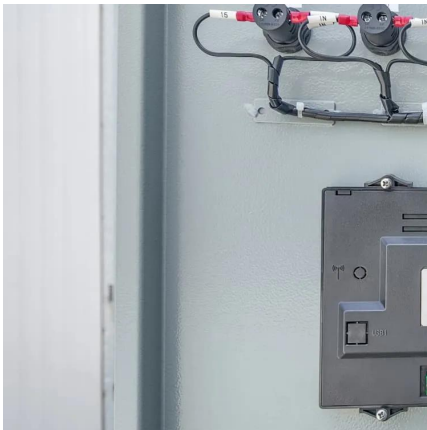
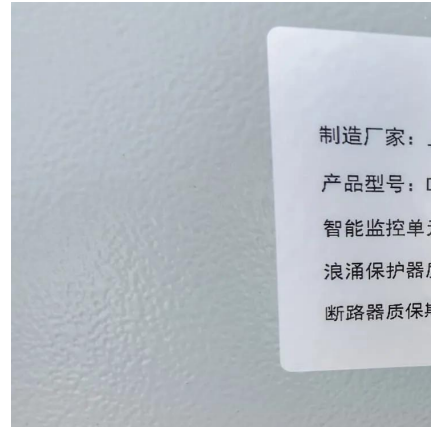
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### [Power Line Communication in Solar Applications](#)

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