



PV DISCONNECT

PEACE OF MIND FOR YOUR SOLAR SYSTEMS WITH OUR RAPID SHUT DOWN FEATURE

The Tigo system includes an advanced safety feature called PV-Disconnect. It enables the array to shut down at the module-level, the safest way to deactivate a solar system. When PV-Disconnect mode is activated, the Tigo system disconnects the PV module from the string, leaving it with zero power output. This can be used for emergency situations or scheduled maintenance. It can be triggered manually or automatically.

MANUAL OPERATION

PRESS THE PV OFF BUTTON ON THE CLOUD CONNECT (CC)

Pressing the PV OFF button will trigger the Cloud Connect (CC) to send an “off” command to all panels. The user must confirm that the system has been successfully deactivated on the CC display. The CC will generate a report confirming the deactivation of each panel (for example: “Resp: 46/48”). Once deactivated, the Tigo units will not turn on again until they receive an active “on” command from the user via the CC on site.

AUTOMATIC OPERATION

ACTIVATE PV-DISCONNECT VIA THE AC CIRCUIT BREAKER

In an emergency such as a fire, standard procedure for first responders is to disconnect the AC circuit breaker for the building. Loss of power from the grid causes the inverter and the CC to shut off. When the CC and inverter both shut off, the Tigo module level units will automatically enter PV-Disconnect mode and power off.

DETECT MODULE LEVEL SAFETY HAZARDS

The Tigo module level units constantly monitors the panels parameters for over voltage, over temperature, and over current. The unit will immediately enter PV-Disconnect mode if a safety hazard is detected, and report its status to the CC. The CC will decide whether there is a local threat, and if a single module level shut down is sufficient, or if there is a potential system safety hazard and PV-Disconnect mode is needed for the entire system.

RESTART THE SYSTEM AFTER PV-DISCONNECT

In cases where the PV-Disconnect is directly activated using the button, the system must be manually restarted on site by following the menu sequence on the CC display. In cases where PV-Disconnect is triggered due to a potential safety hazard, the CC will shut down the system, run diagnostics, and attempt to turn back on. If this happens three times, the CC will remain off until user intervention

