Using SolarEdge Inverters with Vigdu-P Preventive Degradation Device - Application Note

This document describes SolarEdge inverter compatibility with the Vigdu-P: Preventive Degradation Device (PDD). It also explains how to configure the SolarEdge inverter, when required, so that the operation of the inverter is not interrupted.

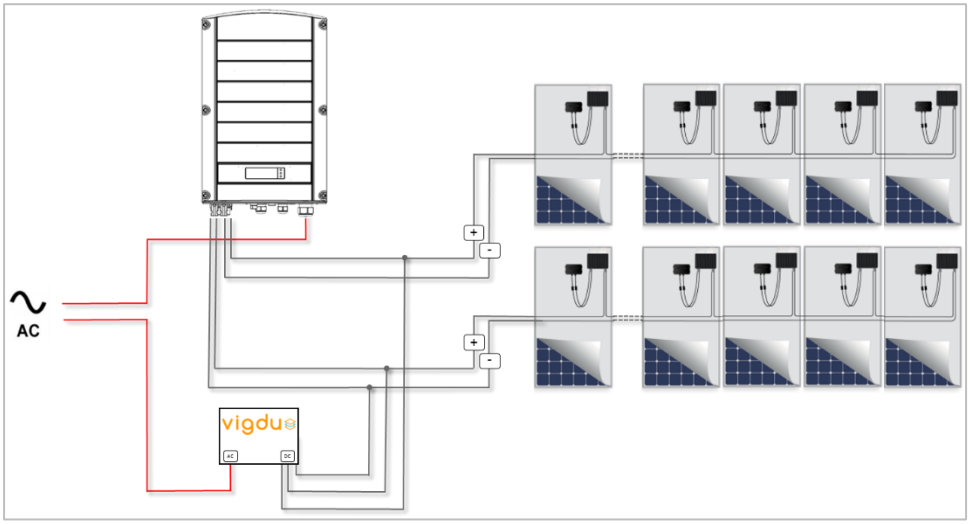

Figure 1: SolarEdge inverter connected to two strings and a PDD box

NOTE:

SolarEdge does not guaranty nor is it responsible for the proper functioning, operation, or performance of the Vigdu-P Preventive Degradation Device.The Vigdu-P Preventive Degradation Device is covered exclusively under its own manufacturer's warranty terms and is expressly excluded from the SolarEdge Limited Product Warranty available at http://www.solaredge.com/sites/default/files/solaredge-warranty-june-2016.pdf

Inverter Compatibility

All PDD models starting with 10x can be used with SolarEdge inverters.

The PDD can be used with the following SolarEdge inverters:

	Single phase inverters	Three phase inverters
North America	SE3000A-US, SE3800A-US, SE5000A-US, SE6000A-US SE7600A-US, SE10000A-US, SE11400A-US	SE9KUS, SE10KUS, SE20KUS Requires the following inverter firmware versions: • CPU – 2.0640 and above • DSP1 – 1.13.700 and above • DSP2 – 2.19.337 and above
Europe and APAC	SE2200, SE3000, SE3500, SE4000, SE4000-16A, SE5000, SE6000	SE4K, SE5K, SE7K, SE8K, SE9K, SE10K, SE12.5K, SE15K, SE16K, SE17K, SE25K, SE27.6K, SE33.3K. Requires the following inverter firmware versions: • CPU – 2.0640 and above • DSP1 – 1.13.327 and above • DSP2 – 2.19.237 and above

When connecting the PDD to a SolarEdge single phase inverter, operating the PDD does not require any additional configuration. When connecting the PDD to a SolarEdge three phase inverter, the inverter must be configured to operate with the PDD. This feature is referred to as "Night Offset" mode and requires the inverter configuration as described below.

NOTE:

The PDD can only be used in combination with modules for which the manufacturer has issued explicit approval.
Each inverter should be connected to a different PDD input.
The PDD must be installed according to manufacturer instructions.

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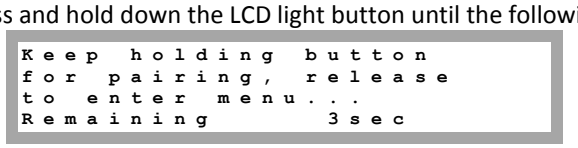
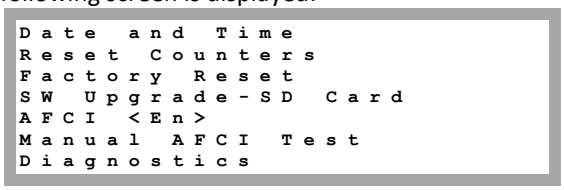
Enabling Night Offset in Three Phase Inverters

1. Press and hold down the LCD light button until the following message is displayed:



2. Release within 5 seconds to enter Setup mode.
3. Short-press (one second) to scroll down to the **Maintenance** menu and long-press to enter the menu.
   The following screen is displayed:



4. Short-press to scroll down to the Diagnostics menu and long-press to select **Diagnostics ➔ Night Offset <Dis>**.
5. Short-press to toggle to **Enable**.
6. Long-press to select the Enable option.
   Wait until the message **Enabled** is displayed.

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