

SolarEdge S1400 Power Optimizer-inverter inter-compatibility - Technical note

Revision History

- Version 1.0 January 2024 – Initial release.

Overview

This technical note presents the inter-compatibility between S1400 Power Optimizers and SolarEdge Inverters. S1400 Power Optimizers are rated up to 24A for output current. Therefore, they are not suitable to be used with SolarEdge Inverter models that have integrated 25A or 30A DC-fuses. S1400 Power Optimizers allow for the planning of PV Systems with fewer strings connected to each inverter unit enabling designs without the need for DC Fuses. For details see [String Fusing Requirements in SolarEdge Systems](#).



NOTE

To connect S1400 Power Optimizers to fused inverters, replace the fuses with SolarEdge neutral links.

Compatible inverters

- Any **commercial** three phase inverter (SExxK-xxxxxxx) that does not have integrated DC fuses
- **Commercial** three phase inverters from the “Non-Compatible Inverters” list where all DC fuses are replaced by SolarEdge neutral links.

Non-Compatible inverters with integrated DC fuses

Following is a list of fused inverters part number suffixes that are not compatible with S1400 Power Optimizers. To connect S1400 Power Optimizers to these inverters, use SolarEdge neutral links.

- SExxK-xxxxxxxA4
- SExxK-TWxxxxxB4
- SExxK-xxxxxxxC4
- SExxK-xxxxxxxD4
- SExxK-xxxxxxxE4
- SExxK-xxxxxxxF4
- SExxK-TWxxxxxL4
- SExxK-TWxxxxxS4
- SExxK-xxxxxxxX4
- SExxK-xxxxlxxxZ4

**IMPORTANT NOTE**

Using the S1400 Power Optimizers with any of the inverters in the “Non-Compatible” list might lead to blowing of the inverter fuse and possible voiding of the warranty.

Replacing fuses with neutral links

Neutral links (Part Number: FLD-3PH-NEUTRAL-LINK) may be used to replace integrated DC fuses in fused inverters. These inverter part numbers appear in the non-compatible list above.

To replace DC fuses with Neutral links, refer to [Fuse replacement with Neutral links – Support Kit manual](#).