

Application Note - Horizontal Mounting of Three Phase Inverters

Revision History

- Version 1.3, Nov. 2020 - Addition of inverter models SE17.3KUS and SE40KUS in North America

Introduction

SolarEdge three phase inverters can be installed horizontally (above 10° tilt) as well as vertically, and at any tilt over 10° up to 90°. Horizontally mounted inverters can be installed under or near the modules, thus saving roof space and minimizing shading on the installation surface.

The following inverters can be installed horizontally:

North America	Europe & APAC
<ul style="list-style-type: none"> SE14.4KUS, SE17.3KUS, SE30KUS, SE33.3KUS, SE40KUS, SE43.2KUS, SE66.6KUS, SE100KUS SE9KUS, SE10KUS, SE20KUS - models with the following PNs: SE9K-US228xxxx, SE10K-US248xxxx, SE20K-US248xxxx, SE9K-USR28xxxx, SE10K-USR48xxxx, SE20K-USR48xxxx 	<p>Three phase inverters manufactured April 1 2015 and later, <i>excluding</i> inverters with part numbers: SExK-xx00Exxxx</p>

This application note provides guidelines for non-vertical installation. These guidelines should be followed in addition to the installation instructions provided in the *SolarEdge Installation Guide*. Failure to follow these guidelines may void the inverter warranty.

Installation Guidelines

- Install the inverter in a location where it will not be submerged in snow or water.
- Mount the bracket and hang the inverter as described in the *SolarEdge Installation Guide*. Make sure to keep the required clearance.
- Always install the inverter with the cover facing up.
- Maintain at least a 10 degree incline of the inverter.
- Avoid applying any pressure on the inverter and Safety Switch (if included) enclosures.
- If the inverter includes a Safety Switch:
 - SolarEdge recommends securing the Safety Switch using the Safety Switch bracket.
 - For Safety Switches with conduits, ensure proper conduit sealing; inspect the entire conduit run and use standard conduit sealants to avoid water penetration.

