

SolarEdge Residential Single Phase Inverter Heat Sink Design Update – North America - Application Note

Revision History

- Version 1.2, September 2024: Updated inverters with part numbers ending in 5 to SExxxxxH-USxxxxxx5 and USExxxxxH-USMNBLx5
- Version 1.1, February 2024: Generalize part numbers and add a new datasheet
- Version 1.0, July 2023: Initial release

Overview

SolarEdge has modified the heat sink design for its higher-power residential single-phase inverters to improve thermal performance and increase power dissipation.

Applicable inverters

The heat sink design change applies to inverters with part numbers ending in the final digit "5", as follows:

- 11.4kW SolarEdge Home Wave single-phase inverters SE11400H-USxxxBxx5
- All SolarEdge Home Hub single-phase inverters with part numbers ending in "5": SExxxxxH-USxxxxxx5 or USExxxxxH-USMNBLx5

Design changes

Due to the change in heat sink design, the new inverter part variants - SExxxxxH-USxxxxxx5 or USExxxxxH-USMNBLx5 have an update in their dimensions and weight. These changes are found in the datasheets:

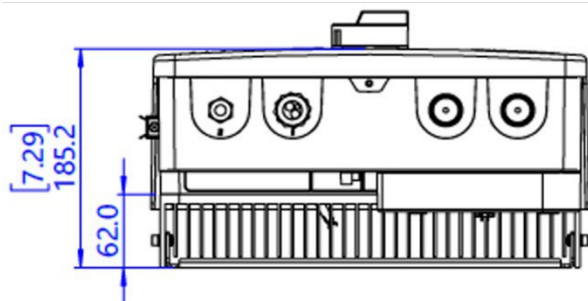
[SolarEdge Home Wave Inverter Datasheet](#)

[SolarEdge Home Hub Inverter Datasheet](#)

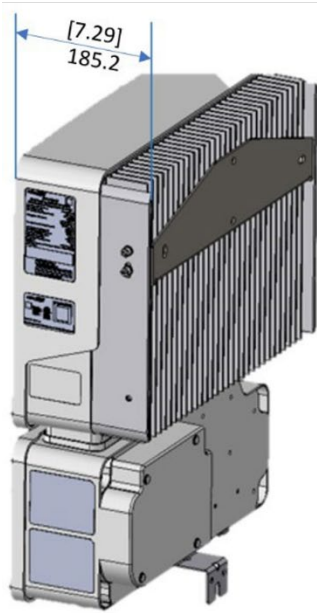
[SolarEdge Home Hub Inverter \(Inverters assembled in the USA\)](#)

In the new design the distance of the conduit inlet from the wall increases by approximately 1".

Home Wave SExxxxH-USxxxxx4
(Previous variant)

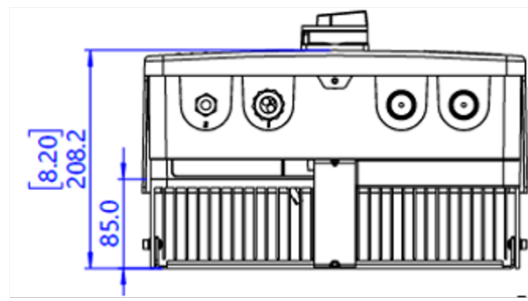


Bottom view

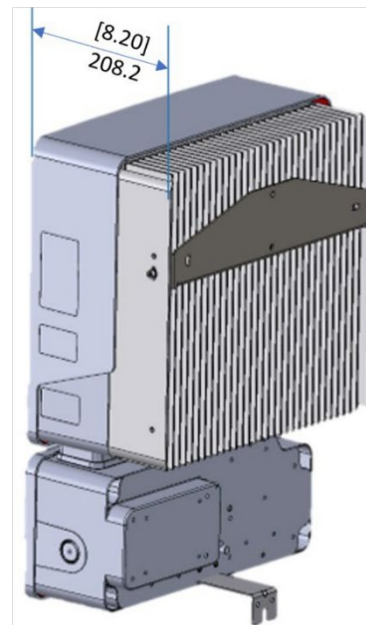


3D view

Home Wave SExxxxH-USxxxxx5
(New variant)



Bottom view



3D view

NOTE

- The distance of the conduit inlet from the wall may vary depending on the inverter nameplate.
- Home Wave inverters support bottom and side conduit entrance, whereas Home Hub inverters support bottom conduit entrance only.

Replacing the inverter- RMA process

When replacing part variant SExxxH-USxxxxxx4 with the new variant SExxxxH-USxxxxxx5 or USExxxxH-USMNBx5, the conduit inlet distance will be approximately 1" further away from the wall. Ensure that you carry the necessary parts needed to accommodate this change before you

arrive on site. You may use various parts including, but not limited to, conduit offsets, elbow bends, gutters, and junction boxes.