

SolarEdge P-5 Series Power Optimizers Grounding Using a Grounding Plate

When the power optimizer is mounted on a *grounded* structure, equipment grounding is usually done using the star washer supplied with the optimizers (refer to the *SolarEdge Installation Guide*).

For selected mounting systems *with sliding nut fasteners*, use the SolarEdge grounding plate (part number SE-GNDPLATE-100) instead of the supplied star washer as described below. The SolarEdge grounding plate penetrates the galvanized or anodized coating of the structure to ensure a low-resistance connection (per UL1741 certification). For information about grounding mounting systems using the SolarEdge grounding methods, refer to the *Grounding SolarEdge Power Optimizers application note* available on the SolarEdge website at: http://www.solaredge.com/files/pdfs/grounding_se_power_optimizers.pdf

► To establish equipment grounding:

- 1 Slide the nut fastener in the desired location in the rail.
- 2 Attach a grounding plate to the power optimizer (see Figure 1): Insert the two plate tabs into the two designated holes in the power optimizer back cover.
- 3 Install the power optimizer onto the rail using hardware suitable for the specific mounting structure (screws, nuts, bolts, washers, etc. not supplied by SolarEdge).
- 4 Tighten the screw with a torque of 9.5 N*m / 7 lb*ft.

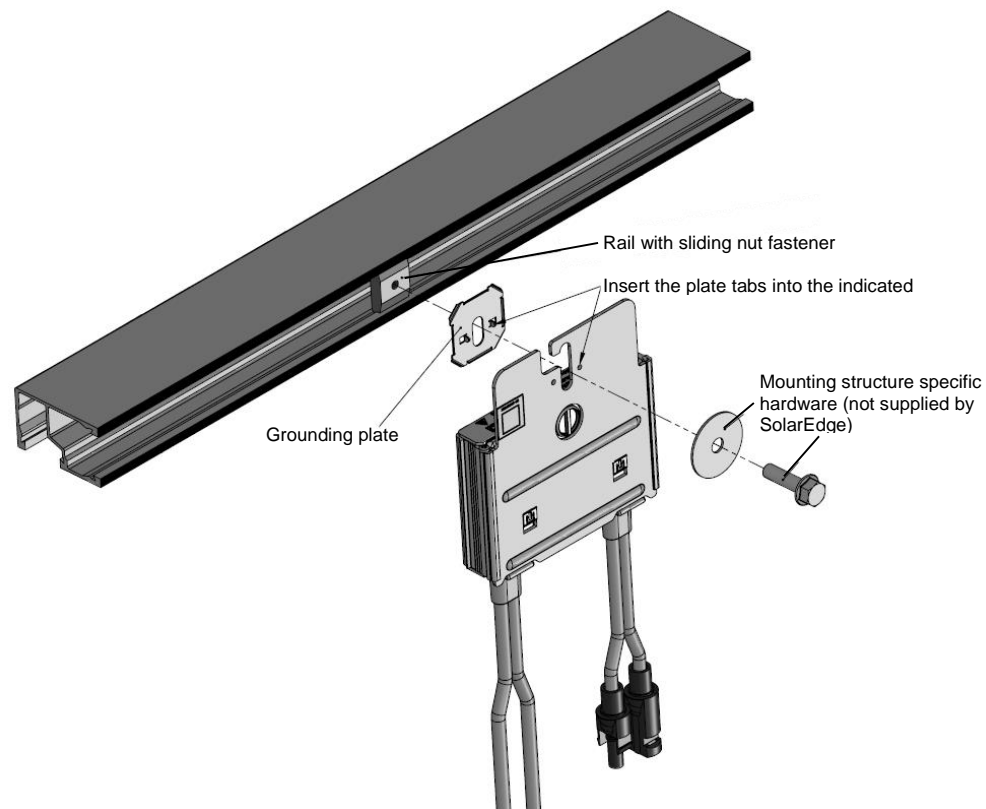


Figure 1: Example of grounding a power optimizer using the grounding plate