



GCP

Features

- Rated for 10 AWG
- Quick installation
- Effectively grounds between module frame and rails
- 10 year warranty, as with all Schletter products
- ETL listed

Schletter's grounding conductor plate (GCP item #430036) offers a quick and easy method for equalizing photovoltaic racking systems. As with all separate manufacturers components, module frames must be grounded according to the specifications of the module and inverter manufacturer. In practice, cable connections between modules are rarely used because of high cost. However, anodized module frames do not provide continuous defined potential equalization with the racking system because of the anodic coating on the frame.

The GCP grounding plate is designed for potential equalization between the module frame and the cross rails. The provided steps should be followed for quick and easy installation of the GCP grounding conductor plate.

Step One:

Use caution when handling the GCP grounding plate as the edges are sharp. For use only when modules **and** rails are in portrait orientation.

Step Three:

Place the module clamp (#400230) directly on top of the GCP grounding plate and tighten clamp down to the required torque of 13 ft-lbs (18 N-M). The serrated part of the grounding plate pierces the anodized surface of the module frame, thereby establishing a connection to the rack without the need for wiring each module separately.

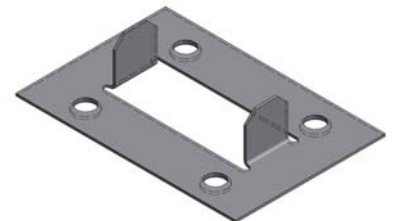
Step Two:

When preparing to install the module clamp on top of the Schletter cross rail, the grounding plate should be positioned first, with the guiding prongs inserted first into the groove of the cross rail.

Step Four:

Repeat procedure with all module clamps. In order to meet ANSI specifications, at least two grounding plate must contact each PV module. For modules in the middle of a row this is ensured by installing one plate under at least two middle clamps securing the module. In the case of an end module, one plate must be installed under one of the middle clamps and one must be installed under one of the end clamps holding the module in place. When installing the plate, use 13 ft-lbs of torque to secure.

The rack itself is manufactured using mill finished aluminum, thereby the grounding of the entire solar array is ensured once the module is connected to the racking system. This method is widely used for grounding PV solar arrays in North America and is in conformance with the National Electric Code.



ISOMETRIC
SCALE 3:1

Position GCP with guiding prongs pointing into the groove of the cross rail.

