The concept of combining photovoltaic arrays with standing seam metal roofing is growing—and for good reasons. A standing seam metal roof has a life expectancy consistent with that of framed PV modules. A 30-year power source on a 40-year roof, along with zero-penetration technology, creates the most sustainable roof system available with alternative power generation, all without compromising the roof manufacturer’s warranty!

The new S-5-PV Kit boasts an important breakthrough in PV mounting technology. It is one of the first solar module mounting solutions in the industry to be listed to the new UL subject 2703, a standard that covers both bonding and mounting. Furthermore, the S-5!™ Mounting Disk has gained an ETL Listing to UL 1703.*

The S-5-PV Kit features a groundbreaking new stainless steel mounting disk with twelve nodes designed to ensure the module-to-module conductivity of anodized aluminum module frames. This means it automatically provides a ground path in the module frame. No lugs or wire required except to connect one string of modules to another and to ground the system. This connection detail represents installed electrical cost savings of $6-$12 per unit. In most cases, the savings in time and materials is sufficient to pay for the entire S-5-PV Kit and clamp setup.
The S-5-PV Kit is furnished with the hardware shown at right, excluding the attachment clamp, which is supplied separately. (When ProteaBracket™ is used in conjunction with the S-5-PV Kit, an additional nut is required during installation to secure the universal PV stud and mounting disk to ProteaBracket's slotted L-flange.) The S-5-PV Kit is compatible with most common metal roofing materials, including brass. The S-S!® EdgeGrab™ and S-5-PV Kit together accommodate PV frame thicknesses 30–48 mm (if EdgeGrab's serrated L-flange is positioned below the stud's hex nut) and 34–51 mm (if EdgeGrab's serrated L-flange is positioned above the stud's hex nut).†

The embossed panel guide makes the module placement easier. The mounting disk is multi-directional and rails are not required. Four strategically placed under-disk hooks assist in wire management. The PV grab ears that hold the solar panel in place are broader to allow for ease of installation and precise module engagement.

Accommodating module thicknesses between 30 and 51 mm, the S-5-PV Kit fits the majority of solar panels on the market. Using the S-S! mini clamps, it fits most standing seam metal roofs. When paired with other S-S! products, the S-5-PV Kit and EdgeGrab will work on most exposed-fastened and corrugated metal roofs. The standard grab is designed to fit field conditions (two adjacent panels), while the new EdgeGrab is designed specifically for end conditions.

Wind dynamics are complex; thus, each system should be reviewed by a qualified licensed professional who understands wind effects on metal roof design and construction prior to purchase and installation. For more detailed information including specifications, installation instructions, and CAD drawings, visit www.S-5.com or your S-5-PV Kit distributor.

The S-5-PV Kit continues to be the easiest, most cost-effective way to install solar panels directly to standing seam metal roofs, remaining the most popular choice worldwide.

The S-5-PV Kit is a revolutionary new solution to attach solar PV panels to standing seam metal roofs!