

# S-5!<sup>®</sup>

## The Right Way!

### S-5-PV Kit and EdgeGrab<sup>™</sup>



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!

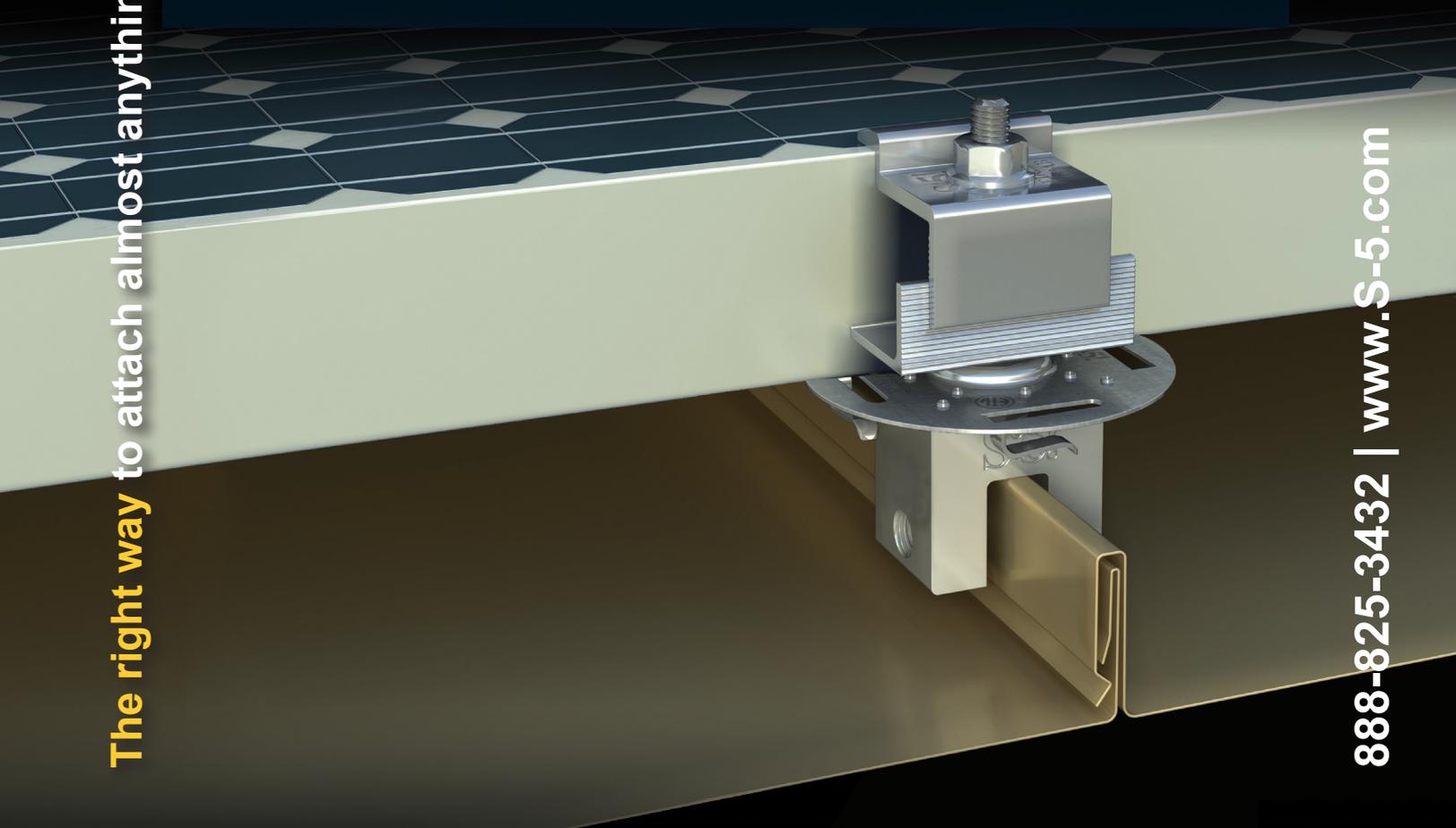
The new S-5-PV Kit boasts an important breakthrough in PV mounting technology. It is one of the first solar module mounting solutions in the industry to be listed to the new UL subject 2703, a standard that covers both bonding and mounting. Furthermore, the S-5!<sup>®</sup> Mounting Disk has gained an 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 right way to attach almost anything to metal roofs!

S-5-PV Kit and EdgeGrab<sup>™</sup>

888-825-3432 | [www.S-5.com](http://www.S-5.com)



# S-5!<sup>®</sup>

The Right Way!

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

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-5!<sup>®</sup> **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-5! mini clamps, it fits most standing seam metal roofs. When paired with other S-5! 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](http://www.S-5.com) or your S-5-PV Kit distributor.

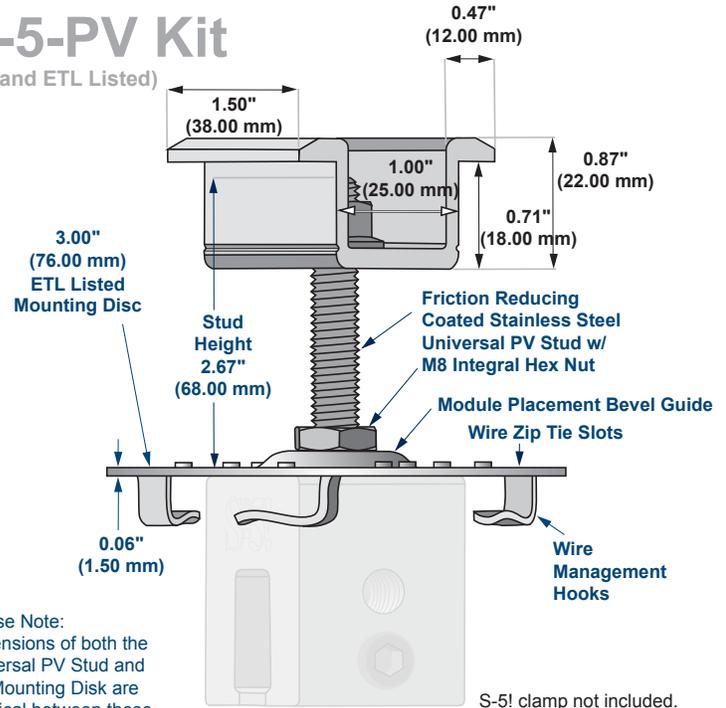
The S-5-PV Kit continues to be the easiest, most cost-effective way to install solar panels directly to standing seam metal roofs, remaining the most popular choice worldwide.



Listed to UL subject 2703.  
ETL Listed to UL 1703.\*

## S-5-PV Kit

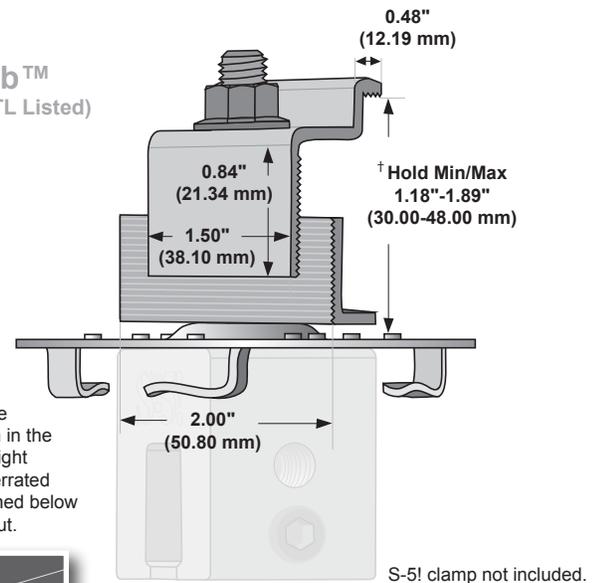
(UL and ETL Listed)



Please Note: Dimensions of both the Universal PV Stud and the Mounting Disk are identical between these two illustrations.

## EdgeGrab™

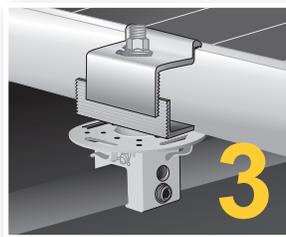
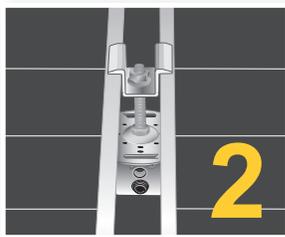
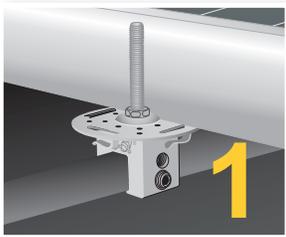
(Not UL or ETL Listed)



Please note: The assembly option in the diagram to the right illustrates the serrated L-flange positioned below the stud's hex nut.

Please note: All measurements are rounded to the second decimal place.

\* Patents pending. Certain components featured in illustration may not be UL listed.  
Due to the variety of attachment needs, S-5-PV Kits are sold separately from S-5! mini clamps. The S-5-PV Kit fits only S-5! mini clamps, NOT standard clamps.



### S-5!<sup>®</sup> Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. Visit the website at [www.S-5.com](http://www.S-5.com) for complete information on patents and trademarks. For maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses. Clamp setscrew tension should be verified using a calibrated torque wrench between 160 and 180 inch pounds when used on 22ga steel, and between 130 and 150 inch pounds for all other metals and thinner gauges of steel. Consult the S-5! website at [www.S-5.com](http://www.S-5.com) for published data regarding holding strength.

Copyright 2014, Metal Roof Innovations, Ltd. S-5! products are patent protected. S-5! aggressively protects its patents, trademarks, and copyrights. Version 032714.

Distributed by