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Balance of System Solutions



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WILEY

# Wiley Solutions



## Engineering Innovation At the Speed of Light

As the solar industry's technology continues to advance at a rapid rate, solar energy has become increasingly accessible and affordable. Leading the way with a commitment to innovation and quality are Wiley and BURNDY.

In 2011, BURNDY was thrilled to combine our history of engineering expertise, superior customer service and long-term reliability with the Wiley product line. Industry-leading companies specify the Wiley family of products more often than any other brand in projects.

Wiley is most widely recognized for the invention of the WEEB® Washer (Washer Electrical Equipment Bond). Wiley is dedicated to developing and providing high-quality solutions that revolutionize the solar industry. The Wiley engineers work closely with solar manufacturers and installers to develop products that address the evolving needs of the PV industry in bonding, grounding, and wire management. These products enable customers to install PV systems safely, efficiently and cost effectively.



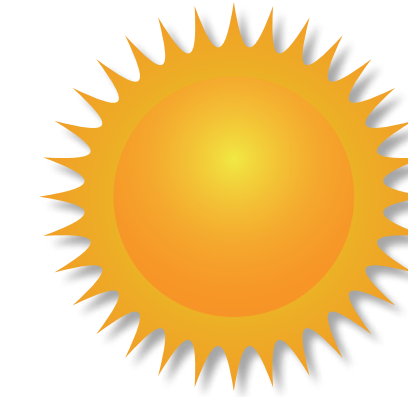
Connecting Power to Your World®



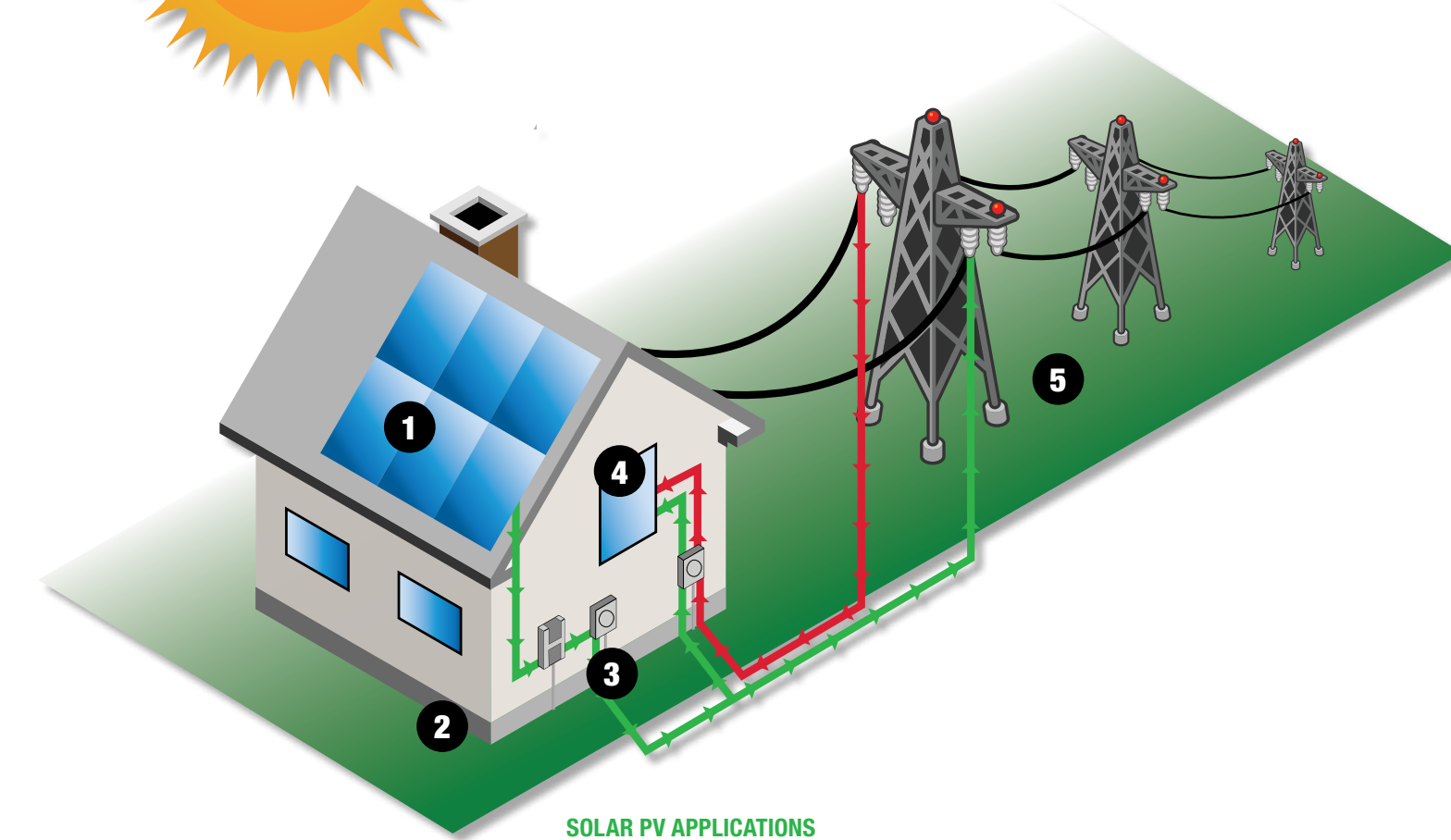
Connecting Power to Your World®



# How Solar Works



1. Photons from the sun are turned into electricity by the solar panels
2. Inverters convert the DC current into useable AC current
3. Meters measure the amount of electricity produced and consumed
4. Electricity produced can be used to power your home
5. Unused AC power is sent back to the grid and used by the utility company



SOLAR PV APPLICATIONS

WILEY PRODUCTS	INVERTER & TRANSFORMER	GROUNDING	MODULE & RACKING
ACE Conduit Entry Box			•
Bonding Jumpers			•
Clamps (Mid/End)		•	•
Grounding Lugs	•	•	•
WEEB® washers		•	•
Wire Management			•
UNIRAP™ Cable Ties	•		•

## How Wiley Products Work

### A WEEB® (Washer Electrical Equipment Bond)

A revolution in the solar industry, WEEB® washers eliminate the need for older, more expensive grounding methods while also significantly reducing the amount of labor and materials used in installations.

Here's how it works: When the WEEB® is inserted between the module frame and mounting rail, the teeth of the WEEB® pierce the anodized coating. The result is excellent conductivity without oxidation—bonding the PV module frame with the metal racking structure. Essentially, the module and rail become one singular piece of metal, creating an electrical path to the ground.

Other features include:

- Corrosion-resistant 304 stainless-steel construction
- Reliability for use throughout the lifetime of the PV system
- ETL Listed to ANSI/UL 467
- UL Recognized to UL 2703
- CSA Certified to C22.2 No. 41
- Rated for outdoor use
- Multiuse
- Custom designs available upon request

### B WEEB® Grounding Lug

The low profile of the WEEB® Grounding Lug allows it to be installed in a variety of positions with one solid or stranded copper wire (14 AWG to 6 AWG), or two copper wires (12 AWG to 10 AWG). The result is a continuous ground on all solar applications.

Other features include:

- Made of corrosion-resistant, tin-plated copper
- Design ensures a quick and easy installation
- Available:
  - With or without WEEB® washer technology
  - Assembled and unassembled
  - With or without installation hardware
- **No** surface preparation required on the rail or module
- ETL Listed to ANSI/UL 467
- CSA Certified to C22.2 No. 41
- Custom designs available upon request
- Reliability for use throughout the lifetime of the PV system

### C Grounding Jumper

The Wiley Bonding Jumper is used to create an electrical connection between two pieces of anodized aluminum, galvanized steel, or any electrically conductive metal. This maintains electrical continuity over long spans or air gaps between metal structures.

Other features include:

- ETL Listed to ANSI/UL 467
- CSA Certified to C22.2 No. 41
- Corrosion resistant
- Equivalent to 6AWG copper wire
- Available:
  - With or without WEEB® washer technology
  - Assembled and unassembled
  - With or without installation hardware
- In-stock standard lengths from 6" to 36" (custom lengths available upon request)
- Custom designs available upon request
- Reliability for use throughout the lifetime of the PV system

### D Cable Clips

Engineered for high-quality wire-management solutions, Wiley's cable clips are constructed of corrosion-resistant 304 stainless steel. Featuring dual wire compartments, the clips can be used in a wide variety of mounting configurations (including 90 degree) for module and rail applications.

Other features include:

- Accommodation for a broad range of cable combinations and sizes (e.g., USE-2, PV, AC module and micro inverter cables)
- No tools required for installation
- Multiuse capabilities
- Coined edges to prevent damage to cable insulation
- Reliability for use throughout the lifetime of the PV system

### E Mid-Clamp/End Clamp

Our universal mid-clamp and adjustable end clamp designs accommodate various module thicknesses. Plus, the Wiley Mid-Clamp uses proven WEEB® technology for integrated bonding as well as a quick and easy installation.

Other features include:

- Low profile design
- Increased inspectability
- Available in mill finish, or black or clear anodizing
- Custom designs and finishes available upon request
- ETL Listed to ANSI/UL 467
- UL Recognized to UL 2703
- Reliability for use throughout the lifetime of the PV system

### F ACE Conduit Entry Box

The ACE Conduit Entry Box makes quick and simple transitions from USE-2 or PV array wire to conduit protected THWN-2 wire. The box features a compact two-piece UV resistant, NEMA 3R rated enclosure that allows ample wiring space and is compatible with any conduit type.

Other features include:

- UL 1741 Listing
- Convenient side and bottom conduit drill-out for easy conduit routing
- Choice of pass-through or combiner box with bracket
- Compatible with any conduit type
- Preassembled for quick and easy installation

