



# Comp Mount

Installation Manual



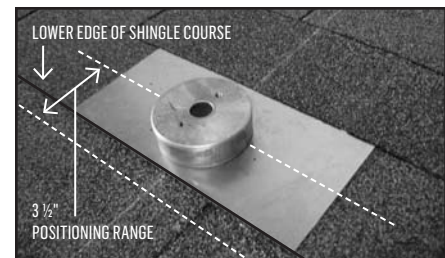
## Introduction

This guide provides instructions for installing Zep Solar's Comp Mount flashed attachment assembly. The Comp Mount is an OEM product manufactured by Quick Mount PV exclusively for Zep Solar. It is intended for use on composition shingle roofs and combines high-quality waterproofing with a labor-saving installation method. Prior to installing the Comp Mount, consult Zep Solar's installation resources found online at: <http://www.zepsolar.com/resources.html>. There you will find Span Tables that will allow you to determine the maximum allowable spacing between attachment points. You will also find the Zep System II PV Module Installation Manual, which provides full installation instructions. Also consult [www.QuickMountPV.com](http://www.QuickMountPV.com) for general mounting instructions, tips, and FAQs.

**INSTALLATION TOOLS REQUIRED:** *Tape Measure, Roofers Bar, Marking Crayon, Chalk Line, Stud Finder, Torque Wrench, Caulking Gun, Rated Sealant, Drill with 7/32" long bit, Drill or Impact Gun with 1/2" Deep Socket.*

## Positioning the Comp Mount

Comp Mounts may be positioned with their lower edge between 1" below to 2.5" above the shingle course drip edge to accommodate the north-south (N-S) spacing of the attachment points (Fig. 1). See the formula (p. 3) to determine N-S spacing. The ability to attach Zep Solar's Leveling Foot to either of the two threaded holes on the mounting block, and the adjust-ability allowed by the oval slot of the Leveling Foot, enables additional N-S adjust-ability; eliminating the need to cut the upper course of shingle in most every case. If the mounting block does come into conflict with the upper shingle course, cut into the upper shingle course to allow the desired positioning.



## Preparing the Roof

In the vicinity of the lower edge of the array, slide upper edge of the first lower-row Comp Mount flashing base under a course of shingles to the desired position (lower edge of the module array will be 3" up-roof from the lower edge of flashing base). Using a Roofer's Bar, remove any nails that prevent the Comp Mount from sliding into place. Mark the mounting-hole location through the center hole of the Comp Mount, remove the Comp Mount and drill a 7/32" pilot hole into the center of the rafter perpendicular to the roof pitch (Fig. 2). Clean off all saw dust and fill with a sealant that is rated for the application (Fig. 3).



Figure 2



Figure 3



### Installing the Comp Mount

After preparing the roof, slide the first Comp Mount back into position. Insert the provided lag screw with the provided sealing washer into the hole and drive the screw into the rafter (Fig 4). Verify that the two holes in the mounting block are aligned vertically. Then tighten the lag screw to 13 ft. lbs. Cover the lag screw with the provided EPDM cap (Fig. 5). Repeat this step for the remainder of the front row attachment points.



Figure 4



Figure 5

### Positioning Subsequent Rows

Moving up roof, to determine the location of the next Comp Mount, measure off the lower edge of the lower Comp Mount to one of the 2 threaded holes on the upper Comp Mount (Fig 6). See Mechanical Specifications below for threaded-hole locations. See the formula below to calculate the spacing based on the orientation and module dimensions.



Figure 6



Figure 7

#### Landscape Orientation:

(Formulas for use with Type LFA Foot only)

Row 1 to Row 2:

$$\text{Module Width} + \frac{5}{8}'' + 3\frac{3}{8}''$$

Row 1 to Row X:

$$(X - 1) (\text{Module Width} + \frac{5}{8}'' ) + 3\frac{3}{8}''$$



#### Portrait Orientation:

(Formulas for use with Type LFA Foot only)

Row 1 to Row 2:

$$\text{Module Length} + \frac{5}{8}'' + 3\frac{3}{8}''$$

Row 1 to Row X:

$$(X - 1) (\text{Module Length} + \frac{5}{8}'' ) + 3\frac{3}{8}''$$



All additional rows should be measured off the lower edge of the first-row mounting block (Fig. 7) using the formula above to determine the exact location of the Comp Mounts. Refer to the Zep System II PV Module Installation Manual for instructions on installing the Zep Compatible module array.

