

# Tesla Panel Mount Comp Rafter

PV Mounting Solution for Composition Shingle Roofs



# Roofing System Specifications

## Description

PV mounting solution for composition shingle roofs

Works with all Tesla Panel Mount Compatible Modules

Auto bonding UL-listed hardware creates structural and electrical bond

## Specifications

Designed for pitched roofs from 2:12 slope (9.46°) and greater

Installs in portrait and landscape orientations

Engineered for spans up to 72 in and cantilevers up to 24 in

Tesla Panel Mount - Comp Rafter System is UL 2703 Listed

Tesla Panel Mount - Comp Rafter System has an UL 2703 Class "A" Fire Rating when installed on steep slope roofs using modules from any manufacturer certified as "Type 1" or "Type 2" to UL 61730

Attachment method evaluated to TAS 100 for Wind Driven Rain

Tesla Panel Mount - Comp Rafter supports up to 85 psf (4070 Pa) front side and up to 85 psf (4070 Pa) rear side design load rating for landscape module orientation per UL 2703\*

Tesla Panel Mount - Comp Rafter supports up to 20 psf (958 Pa) front and up to 20 psf (958 Pa) rear side design load rating for portrait module orientation per UL 2703\*

Engineered for compliance with ASCE 7-05, 7-10, 7-16, and 7-22 wind load requirements

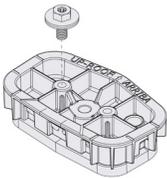
Tesla Panel Mount wire management products are listed to UL 1565 and UL 2239 for wire positioning devices

Tesla Panel Mount grounding products are listed to UL 2703 and UL 467

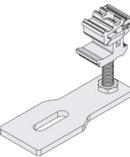
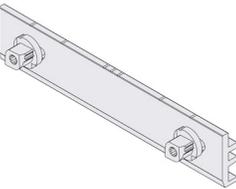
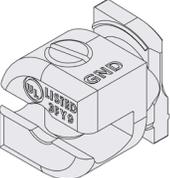
*\* hardware system rating only, does not include PV module or Roofing Material pressure limit*

# System Components

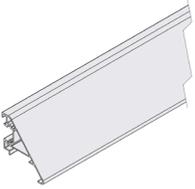
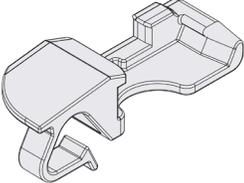
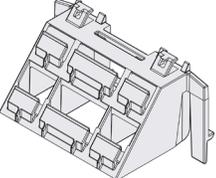
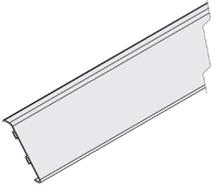
## Tesla Panel Mount Comp Rafter Components

Part Image	Part Number	Part Name	Part Description
	2023000-00-X	Comp Rafter Base	Provides a roof mounting attachment point for the array.  Listed to UL 2703
	2044245-00-X (4 3/4 in) 2044244-00-X (5 1/2 in)	Lag Screw	Attaches the Comp Rafter Base to the roof rafter.
	1679265-00-X or 1576600-00-X	Sealant Cartridge with Nozzle or Sealant Sausage Pack with Nozzle	Fills a cavity in the Comp Rafter Base for waterproofing.

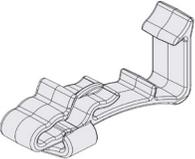
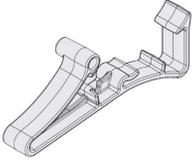
## Grounding & Bonding Components

Part Image	Part Number	Part Name	Part Description
	2032169-00-X	Comp Rafter Leveling Foot	Secures PV modules to the Comp Rafter Base, bonds connected modules, and enables array leveling.  Listed to UL 2703
	1576999-00-X	Interlock	Provides structural and electrical bonding between PV modules within each sub-array.  Listed to UL 2703
	1578119-00-X	Ground Lockit	Provides a single point for grounding a PV array.  Listed to UL 467 and UL 2703

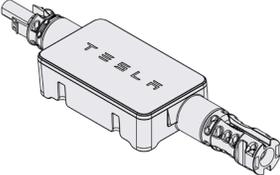
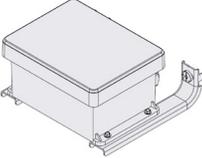
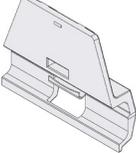
## Array Skirt Components

Part Image	Part Number	Part Name	Part Description
	2047098-23-X (1818 mm) 2047098-24-X (2296 mm)	Front Skirt	Serves as a structural and aesthetic feature for the array and helps establish a straight line to build from.  Listed to UL 2703
	2088697-00-X	Front Skirt Grip	Provides structural support to the Front Skirt, connecting it to the Leveling Foot.  Listed to UL 2703
	2022523-00-X	Side Skirt Bracket	Provides an attachment point for the Side Skirt, connecting it to the Tesla Groove.
	1993354-05-X (2296 mm) 1993354-06-X (1148 mm) 1993354-07-X (1818 mm)	Side Skirt	Covers the edges of the array to create a clean aesthetic.
	2049666-00-X (Outside) 2049667-00-X (Inside)	Corner Cap	Conceals hardware and creates a clean aesthetic on the corners of the array.

## Wire Management Components

Part Image	Part Number	Part Name	Part Description
	1578249-00-X	DC Wire Clip	Secures up to 3 conductors underneath a PV module by attaching to the Tesla Groove.  Listed to UL 1565
	1578389-00-X	Home Run Wire Clip	Secures up to 5 conductors underneath a PV module by attaching to the Tesla Groove.  Listed to UL 1565

# Electrical & Accessories

Part Image	Part Number	Part Name	Part Description
	1879359-15-X	MCI-2 (Mid-Circuit Interrupter)	<p>Tesla's rapid shutdown solution, which is compatible with Tesla power electronics.</p> <p>Listed to UL 1741</p>
	1571739-00-X	Combiner Box	<p>Provides terminal blocks to make parallel connections and transition wire. Connects directly to the groove on Tesla Compatible PV modules.</p> <p>Listed to UL 1741</p>
	2043367-00-X	Conduit Support	<p>The Conduit Support accommodates ¾ and 1 in trade sizes of EMT, PVC, and RMC. Adjustable, openable, and attaches with a single self-sealing fastener.</p>
	1578189-00-X	Snow Guard	<p>Installs into the panel frame to hold snow on top of the modules when panels are installed above walkways or driveways</p>