Solar PV Mounting Structures

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Ballasted Rooftop Structure
(Model: STR-AL-1000)

Non penetrating rooftop solution suitable for small kW systems (250W-2KW) on flat rooftops with plenty of roofspace and parapet walls

- Scale from as small as one PV module to multiple PV modules
- Easy to assemble, disassemble, and transport
- No power tools required for assembly
- Lightweight, all rails made out of aluminium
- Wind protection provided
- Area required per kW: 10.5 sq.m
- Tilt angle: Upto 13 degrees
Penetrating lightweight solution suitable for small kW solar PV systems (250W – 2KW) on flat rooftops with plenty of roof space

Area required: 10.5 sqm per kW
Components include:
- Anodized Al rails
- Adjustable Front & Back Leg
- Al End and Mid clamps
- SS Anchor fasteners
Weight: Approx. 18 kg per kW
Penetrating Rooftop Structure – GI
(Model: STR-GI-2000)

Low cost compact structure suitable for flat roofs and small to mid sized installations (1KW-100KW)

- Compact structure for flat roofs
- Structure is made of roll formed GI profiles (C channels and angles), 120GSM standard, 550GSM on request
- Between 50-70kg per KW, based on latitude
- Stainless steel fasteners, SS stud bolts for foundations
- No welding required
- Tailored to meet roof area and system size
- Designed to withstand wind gusts of 150kph
- Tilt adjustable to latitude
Suitable for corrugated metal roofs with trapezoidal roof profile – solar panels arranged in portrait mode

Mounting structure components include:

- T slotted rails
- End and mid clamps
- Angle brackets
- T Nuts and bolts

Above components are made out of anodized Al
Rails riveted to metal roof with pop rivets
Suitable for corrugated metal roofs with trapezoidal roof profile – solar panels arranged in landscape mode

Mounting structure components include:
- SS Brackets
- Al mid and end clamps
Brackets are riveted to metal sheet using pop rivets
Metal Roofs - Standing Seam
(Model: STR-AL-3600)

Suitable metal roofs with standing seam – panels mount directly to clamps, roof is not penetrated
Mounting Structure for Tiled Roofs
(Model: STR-AL-4000)

Mounting structure components include:
- Solar hooks,
- Al mounting rails,
- Al end and mid clamps

Suitable for tiled roofs—panels mount directly to rails that are fastened to hooks fixed to underlying rafters
Suitable for large MW solar installations – crystalline panels

Structures made from roll formed steel profiles, that are hot dipped galvanized to 80 microns thickness
25 years warranty on structures
Able to sustain wind loads of 150kmph
Foundations can be reinforced concrete, ground screws, or rammed posts
Ground Mounted Structure – Fixed
(Model: STR-HDG-5500)

Suitable for large MW solar installations – thin film panels
Pole Mounted Structure

Simple structure designed to hold 1-2 solar panels above ground or roof
Other Mounting Structures

Sunshed

Solar Carport
Moving Structures - Single Axis Tracker

- Material: Hot dipped galvanized
- Area per KW: 40 sq m
- E-W tracking: +/- 45 degrees
- Tracking Mechanism: Linear Actuator
- Seasonal tilt: Manual