APEX SOLAR MOUNT

The Top Leading Manufacturer Of Solar Mounting Solutions

Any Scale, Any Solution.

APEX CUSTOMER TECHNICAL DATASHEET | REV E

ApexGround ScrewBase System

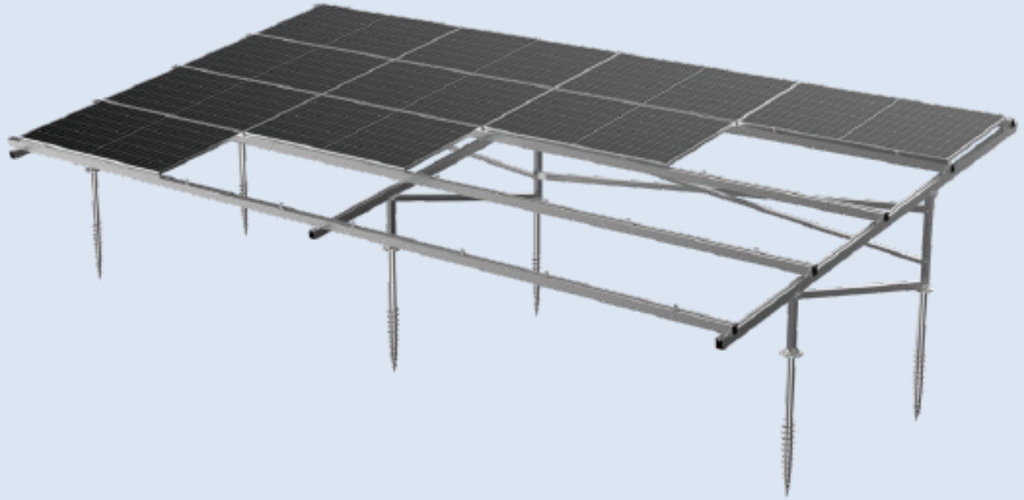
Utility-ready ground mounting platform with project-specific foundation sizing, corrosion review and optimized steel scope.

APPLICATION
Ground-mounted PV projects requiring fast foundation installation

FOUNDATION
Ground screw foundation selected by soil class, pull-out test and corrosion exposure

TILT
10/15/20/25/30 deg standard

WIND
Up to 60 m/s



Advantages

Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost.

Apex Advantage

Any Scale, Any Solution. Apex provides project-ready mounting structures, optimized BOM support, engineering documentation and dependable material control for global PV projects.

Reliable Structures. Faster Project Review. Global PV Support.

CUSTOMER TECHNICAL DATASHEET | REV E 2026

ApexGround ScrewBase System

Utility-ready ground mounting platform with project-specific foundation sizing, corrosion review and optimized steel scope.

WIND
Up to 60 m/s

SNOW
Up to 1.6 kN/m2

TILT
10/15/20/25/30 deg standard

WARRANTY
12-year product warranty

Design Envelope

Parameter	Min	Max	Condition
Tilt	10 deg	45 deg	Standard/optional by project
Pile/screw depth	1000 mm	3500 mm	Soil report and pull-out test
Pile spacing	2000 mm	4500 mm	Span and load dependent
Module envelope	Standard	2500 x 1400 mm	Module datasheet required

Core Specification

Item	Specification
Application	Ground-mounted PV projects requiring fast foundation installation
Foundation	Ground screw foundation selected by soil class, pull-out test and corrosion exposure
Tilt	10/15/20/25/30 deg standard; 35-45 deg optional by project review
Wind	Up to 60 m/s; terrain, screw embedment and row spacing by structural review

Materials / Compliance / Warranty

Item	Specification
Material	Q235B / Q355B HDG steel; AL6005-T5 rails; SUS304 or HDG grade 8.8 fasteners
Design Basis	ASCE 7-16 / 7-22; IBC 2021 / 2024; EN 1991 / EN 1993 / EN 1999; AS/NZS 1170; JIS C8955 / GB 50009 by project
Warranty Profile	Mechanical structure: 12-year limited; corrosion protection and design life target by exposure class and order scope.

Apex engineering support: layout drawing, structural calculation basis, optimized BOM, packing list and material documentation.

PROJECT DESIGN INPUT SHEET

Project Design Input Sheet

Site wind profile	Snow zoning
Module datasheet	**Corrosion class C3/C4/C5**
Soil class / geotech report	Pull-out test
Terrain category	Seismic zone

Engineering Output Definition

Item	Specification
Design load envelope	Wind, snow and seismic basis defined for project review.
MTO / BOM	Material take-off and component list prepared by layout.
Drawing pack	Layout, section/detail drawings and installation reference by order scope.
Foundation schedule	Pile/screw spacing, embedment and section selection reviewed.

Ground Model Focus

Pile/screw embedment, post spacing, rail/beam span, stiffness path and soil pull-out capacity define the structural model.

Engineering calculation entry

Submit design inputs to define load envelope, model assumptions, MTO and drawing pack.

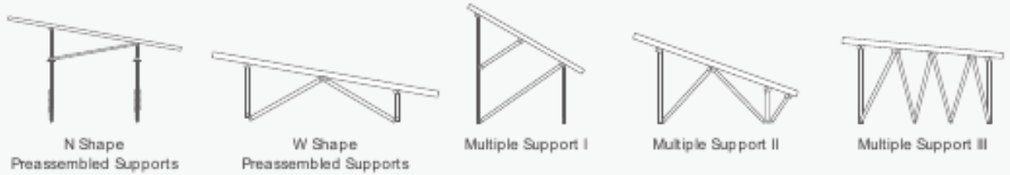
Request Apex EPC review for load envelope, structural assumptions, MTO and drawing pack.

info@apexsolarmount.com | www.apexsolarmount.com

Engineering Technical Controls

Item	Specification
Wind	Up to 60 m/s; terrain, screw embedment and row spacing by structural review
Snow	Up to 1.6 kN/m2; final span by module layout and screw capacity
Tilt	10/15/20/25/30 deg standard; 35-45 deg optional by project review
Foundation	Ground screw foundation selected by soil class, pull-out test and corrosion exposure
Material	Q235B / Q355B HDG steel; AL6005-T5 rails; SUS304 or HDG grade 8.8 fasteners
Design Basis	ASCE 7-16 / 7-22; IBC 2021 / 2024; EN 1991 / EN 1993 / EN 1999; AS/NZS 1170; JIS C8955 / GB 50009 by project
Warranty Profile	Mechanical structure: 12-year limited; corrosion protection and design life target by exposure class and order scope.

Structure



Component Details

Cross Beam 85

Specification :
L*7185
Material :
3100mm 4100mm 5100mm

Splice for Cross Beam85

Specification :
L260mm
Components :
Hexa Self-Tapping Screw
With EPDM Washer ST6.3*19

GT4 Preassembled Support

Components :

C Clamp Kit

Components :
C Clamp
Cross Module
Spring Washer M8
Hexagon Socket Head Bolt M8*28

Wide End Clamp Kit

Components :
Wide End Clamp
Cross Module
Spring Washer M8
Hexagon Socket Head Bolt

U25 Inter Clamp Kit

Components :
Inner Clamp
Cross Module
Spring Washer M8
Hexagon Socket Head Bolt

GT4 Corrugated T Anchor Plate Kit

Components :
Corrugated Gasket
Corrugated T Plate
Hexagon Bolt Kit
Material :
AL6005-T5(Anodized)

GT4 Corrugated U Anchor Plate Kit

Components :
Corrugated Washer
Corrugated U Anchor Plate
M12*95 External Hexagon Bolt Kit
Material :
AL6005-T5(Anodized)

Installation Guide

1. Install the ground screw based on project solution
2. Fix Corrugated U Anchor Plate Kit & Corrugated T Anchor Plate Kit on ground screw.
3. Install the Pre-assemble Support on ground screw
4. Install Back Side Support
5. Install Beam
6. Fix the solar module with Inter Clamp Kit & End Clamp Kit