

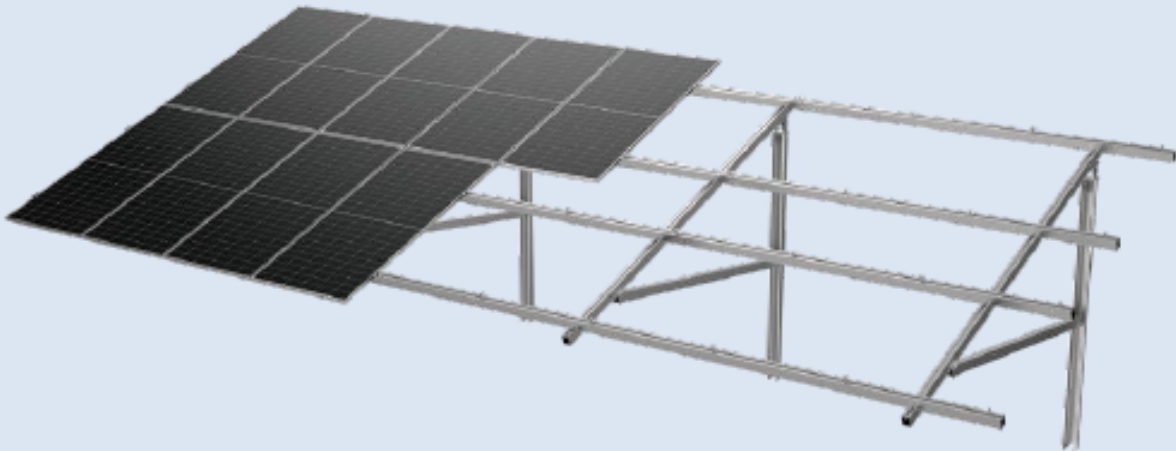
APEX CUSTOMER TECHNICAL DATASHEET | REV E

ApexGround GT2 Terrace System

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

APPLICATION Ground terrace arrays for commercial and utility PV projects	FOUNDATION Pile, concrete or ground screw foundation by site condition
TILT 10/15/20/25/30 deg standard	WIND Up to 60 m/s

Ground Mounting System | 30 Degree | Standard Orientation 10/15/20/25/30 | Suitable for Ground or Foundation Screw Mounts | Project or Customized | Warranty



Advantages

Pre-assembled Components Save Onsite Installation Time
Solution design case by case, maaoost 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 GT2 Terrace 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 terrace arrays for commercial and utility PV projects
Foundation	Pile, concrete or ground screw foundation by site condition
Tilt	10/15/20/25/30 deg standard; optional angle by project review
Wind	Up to 60 m/s; terrain, row spacing and foundation type by structural review

Materials / Compliance / Warranty

Item	Specification
Material	Q235B / Q355B HDG steel and AL6005-T5 aluminium rails by BOM
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.

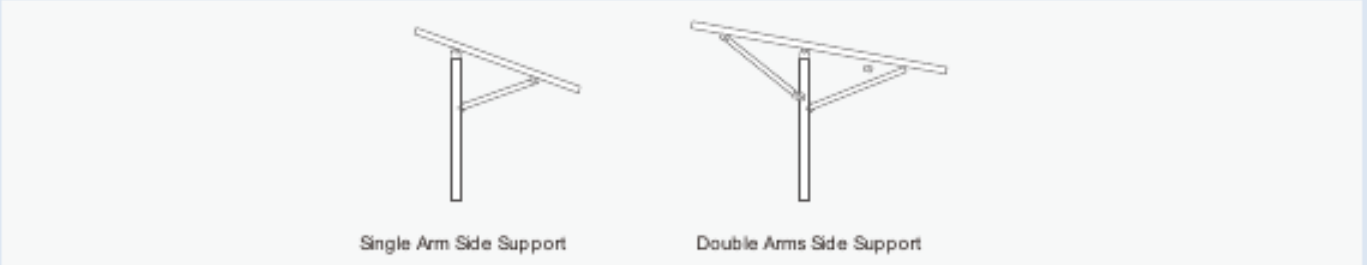
Request Apex EPC review for load envelope, structural assumptions, MTO and drawing pack.

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Engineering Technical Controls

Item	Specification
Wind	Up to 60 m/s; terrain, row spacing and foundation type by structural review
Snow	Up to 1.6 kN/m2; final by span, rail spacing and local code
Tilt	10/15/20/25/30 deg standard; optional angle by project review
Foundation	Pile, concrete or ground screw foundation by site condition
Material	Q235B / Q355B HDG steel and AL6005-T5 aluminium rails by BOM
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



Rail 85
Specification : L'63.5"85
Material : 3100mm 4100mm 5100mm



Splice for Rail 85
Specification : L260mm
Components : Hexa Self-Tapping Screw With EPDM Washer ST6.3"19



GT2 Pre-assembled Support
Components : U Beam ; T Shape Joinder ; C clamp Kit Pre-Assembled Square Tube Spring WasherM12; WasherM12 Hexagon Nut M12; Hexagon Bolt M12*95 Hexagon Bolt M12*75



C Clamp Kit
Components : C Clamp Cross Module Spring Washer M8 Hexagon Socket Bolt



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



Inter Clamp Kit
Components : Inter Clamp Cross Module Spring Washer M8 Hexagon Socket Bolt



Post Plate
Material : AL6005-T5(Anodized)
Specification : Plate A: L90 Plate B: L70



U Post
Material : Steel Q235B (Hot-Dip Galvanized)

Installation Guide

