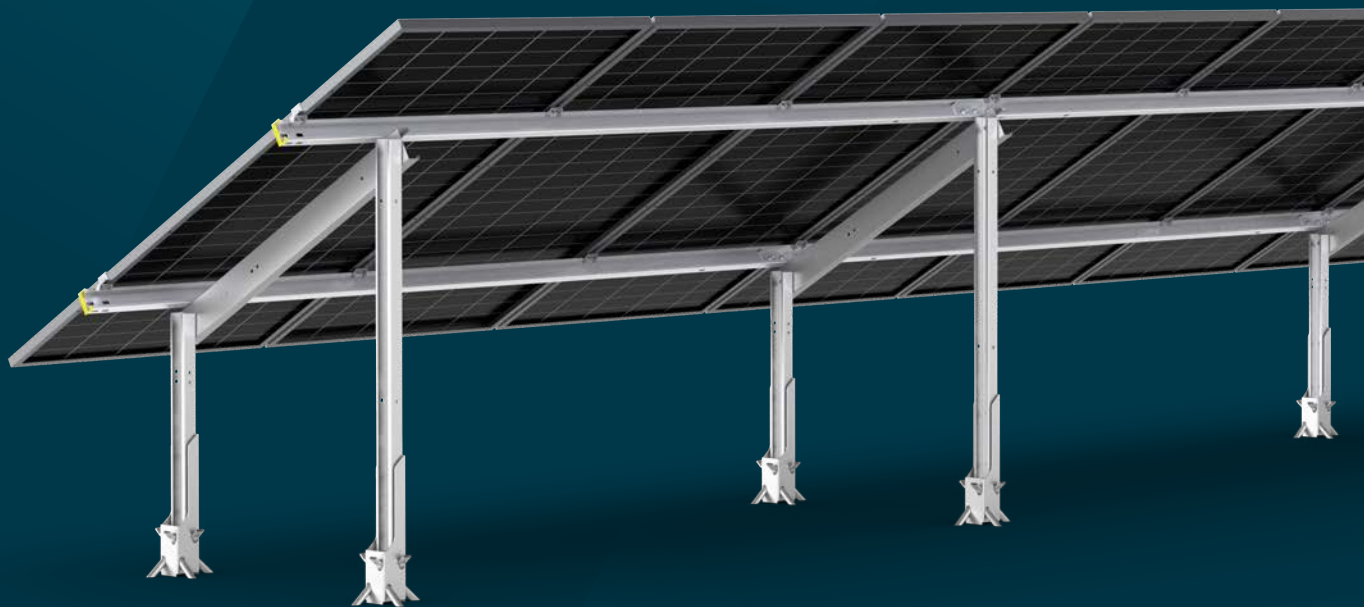


1-IN-PORTRAIT, TWIN POST MODULAR GROUND MOUNT

For Residential and Commercial Solar Projects



The 1-in-Portrait, twin post system maximises limited space with a lower profile, ideal for height-restricted areas. Its streamlined, vertical arrangement enhances aesthetics and efficiency on narrow plots, reducing installation costs with its simpler configuration.



**EASY SITE
PLANNING**

**UNMATCHED SUPPORT
& RAPID DELIVERY**

**SINGLE FIXING SIZE
USED THROUGHOUT**

**MAXIMISES
LIMITED SPACE**

COST EFFECTIVE & RISK REDUCING FEATURES

The Modular 1-in-Portrait, twin post ground mount system is designed to reduce errors and maximise productivity, cutting down on the time and resources needed on-site. These features help decrease labour costs and enhance overall efficiency. Safety is also a priority, with Modular's design minimising common installation risks and promoting safer work environments.

DIVERSE FOUNDATION OPTIONS

Our broad selection of foundation options ensures that the Modular 1-in-Portrait, twin post system can be installed on virtually any terrain. From ground anchors in challenging conditions to ballasted systems where minimal ground disturbance is necessary, Modular provides stable and durable foundations for every solar project.

STREAMLINED DESIGN & INSTALLATION

Solarport's 1-in-Portrait, twin post is renowned for its intelligent design that streamlines the entire process from site planning to deployment, making it a preferred choice for those seeking efficient solar mounting solutions. By reducing component variations and employing universal parts the system not only speeds up the installation process but also ensures easy system expansion with a single fixing size used throughout.

TECHNICAL DATA

1-in-Portrait, Twin Post Modular Ground Mount



PANEL CONFIGURATION:

1-in-Portrait, Twin Post

PANEL MIN AND MAX LENGTH:

Min length: 1650 mm

Max length: 2470 mm

PURLIN CONFIGURATION:

2 purlins, position determined by panel dimensions and clamping zones

PANEL CLAMPING ZONES:

Please refer to the panel manufacturer's specification

PANEL CLAMP SPECIFICATIONS:

Panels fitted using aluminium top hat and end clamps, with sliding clamps to give mounting positions

SYSTEM ANGLES:

20°, 25°, 30°

SYSTEM MIN AND MAX HEIGHTS:

20°: Min (clearance): 744 mm
Max (to top of rafter): 1332 mm

25°: Min (clearance): 759 mm
Max (to top of rafter): 1455 mm

30°: Min (clearance): 773 mm
Max (to top of rafter): 1572 mm

TABLE CONFIGURATION MIN AND MAX:

2 panels x 1 panels min. 30 panels x 1 panels max.

BAY PITCHES:

2000mm, 2500mm, 3000mm, 3500mm.

Each pitch can have 100mm added if an Extension Joiner is used

FOUNDATION TYPES:

Ballasted, X Anchor, Direct Fix, Screw Pile

MATERIAL SPECIFICATION:

S450 grade steel.

Coating ZM310 & ZM800

WIND SPEED:

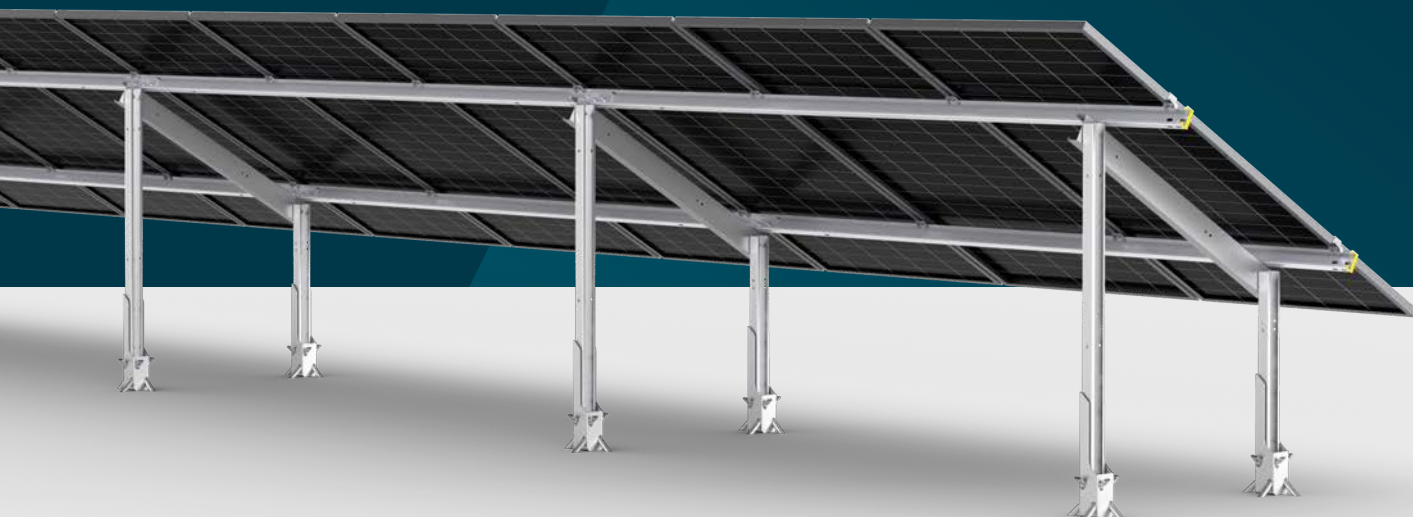
Fundamental basic UK wind velocity within the UK up to 26m/s. If your site exceeds this please enquire directly

SNOW LOADS:

0.7 kN/m² max

DESIGN CODES:

Designed in accordance with BS EN 1991-1-4:2005 + A1:2010, BS EN 1090 & BS EN 1991 Parts 1, 3 & 7



BALLASTED

Applicable with	Modular 1-in-Portrait ,Twin-Post
Suitable for	Sites where breaking round is not permitted (archaeological or geotechnical)
Installation	Steel plates weighted with high density concrete blocks. Block weights determined by geotechnical and wind load testing
Material	S450 grade steel Coatings: ZM800 Corrosion protection is determined from ground investigations if provided
Dimensions	Plate size: 860mm x 985mm
Design Codes	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010, BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

X-ANCHOR

Applicable with	Modular 1-in-Portrait, Twin-Post
Suitable for	Sites that require shallow embedment and/or no heavy machinery
Installation	Steel rods driven with hand tools or driven in with a post knocker
Material	X-Anchor Body: Hot rolled steel (S355JR) hot dipped galvanised to ISO 1461 X-Anchor Folded Rod: ZM800 Corrosion protection is determined from ground investigations if provided
Dimensions	600mm embedment
Design Codes	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010, BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)



SCREW PILE

Applicable with	Modular 1-in-Portrait, Twin-Post
Suitable for	Sites where breaking ground is possible and geotechnical results permit use
Installation	By hand and/or with machinery
Material	S235 Grade Steel (Pipe) S355 Grade Steel (Flange) Hot dip galvanised to DIN EN ISO 1461
Dimensions	Pipe: 76 mm x 3 mm x 1250 mm Flange: 200 mm x 8 mm
Design Codes	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010, BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

DIRECT FIX

Applicable with	Modular 1-in-Portrait, Twin-Post
Suitable for	Non-cracked concrete foundations ranging between C20/25 & C50/60
Installation	Torque controlled expansion bolts fitted into concrete with hand tools
Material	Adjustable upright: S450 grade steel Coatings: ZM800 Bolts: High tensile steel hot dipped galvanised to EN 1461 Corrosion protection to be determined from site location.
Dimensions	M12 x 145 mm torque controlled expansion
Design Codes	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010, BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

