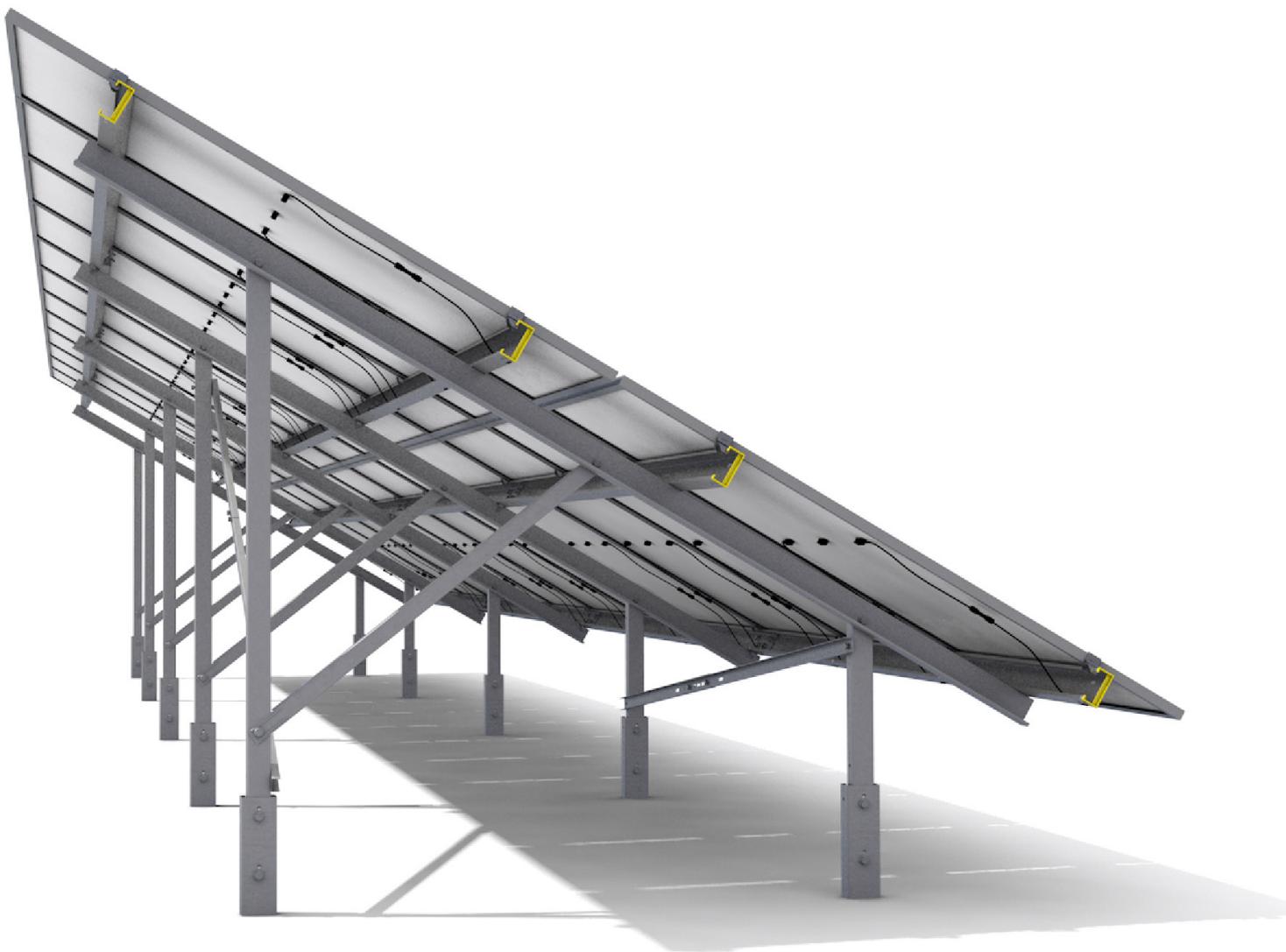


Modular 2-In-Portrait Datasheet



SOLARPORT

S O L A R M O U N T I N G S Y S T E M S



ISO 9001, ISO 14001, ISO 45001

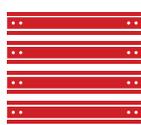


MODULAR

2-in-Portrait Ground Mount System



Easy site planning



Held in stock



Range of tilt angles



Utilises a range of foundation options

Overview:

The Modular system is ingeniously engineered for commercial and domestic sites, with the flexibility to accommodate any of our foundation options. Site planning, design, and deployment are streamlined for ultimate convenience.

Benefit from an elegant design that minimises component variations, featuring universal parts for easy expandability. The Modular framework employs a single fixing size throughout, eliminating on-site complications and accelerating the installation process.

Strategically designed to be compatible with 80% of the UK's landmass and versatile enough to accommodate the majority of panel sizes in the market, the Modular system simplifies planning and offers peace of mind for those that want Solarport quality, straight off the shelf.

With Modular systems readily stocked, we guarantee swift, direct-to-site deliveries.



TECHNICAL DATA

For Modular Ground Mount Systems

Modular is held in stock for rapid distribution and can utilise a multitude of different foundation options, ensuring that almost no terrain is off limits.

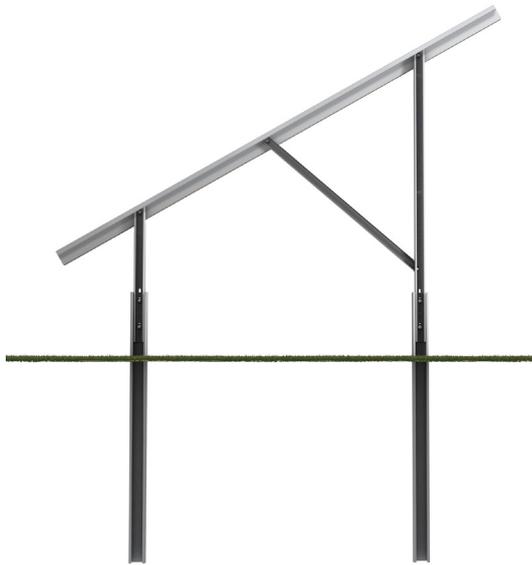
The modular design allows for the tables to be built in bays of 2 or 3 panels wide and is suitable for ground up to a maximum slope of approximately 5°.

Panel configuration:	2-in-portrait
Panel min and max length:	Minimum length: 1650 mm. Maximum length: 2470 mm
Purlin configuration:	4 purlins, position determined by panel dimensions and clamping zones
Panel clamping zones:	Please refer to 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°: Minimum (clearance): 785 mm Maximum (to top of rafter): 2200 mm 25°: Minimum (clearance): 735 mm Maximum (to top of rafter): 2455 mm 30°: Minimum (clearance): 680 mm Maximum (to top of rafter): 2694 mm
Bay sizes:	2 panels and 3 panels wide
Table configuration min and max:	2 panels x 2 panels min. 30 panels x 2 panels max.
Bay pitches:	2000 mm, 2500 mm, 3000 mm, 3500 mm. Each pitch can have 100 mm added if Extension Joiner is used
Foundation types:	C Pile, V Pile, Concreted Pile, Ballasted, X Anchor, Ground Anchor, Direct Fix, Ground Screw
Material specification:	S450 grade steel. Coating ZM310 or ZM800
Wind speed:	Fundamental basic UK wind velocity within the UK up to 28m/s
Snow loads:	0.7 kN/m ² 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 (Eurocodes)



TECHNICAL DATA

For Foundation Types



Name: C Pile

Suitable for: Sites where breaking ground is possible, geotechnical results permit use and/or machinery is available

Installation: Piling rig. 2000 mm pile, 1500 mm embedment

Material: S450 grade steel. Coating ZM310 or ZM800.

Dimensions: 120 mm x 70 mm x 3 mm x 2000 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)

Name: V Pile

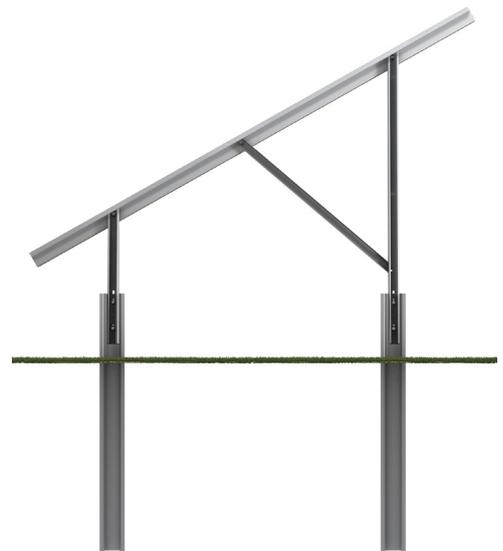
Suitable for: Sites where breaking ground is possible and geotechnical results permit use. Performs well in rocky and/or hard ground conditions

Installation: Piling rig. Only issued if test results permit use

Material: S450 grade steel. Coating ZM310 or ZM800.

Dimensions: 102 mm x 44mm x 30 mm (length determined by test results)

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)



Name: X Anchor (Patent Number: GB2607092)

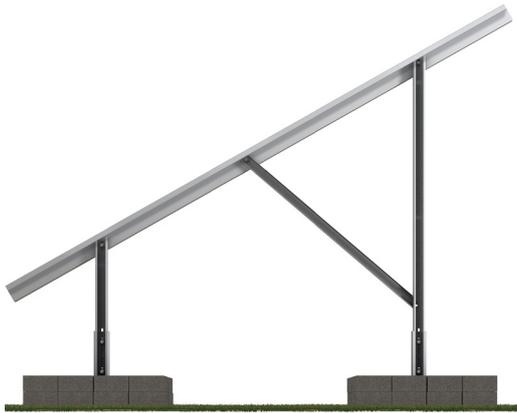
Suitable for: Sites that require shallow embedment and/or no heavy machinery

Installation: Steel rods driven in with hand tools

Material: Hot rolled steel (S355JR). Hot dipped galvanised to ISO 1461

Dimensions: 600 mm 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)



Name: Ballasted

Suitable for: Sites where breaking ground is not permitted (archaeological or geotechnical)

Installation: Steel plates weighted with high density concrete blocks

Material: S450 grade steel. Coating ZM310 or ZM800

Dimensions: Plate size: 960 mm x 900 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)

Name: Concreted Pile

Suitable for: Sites where breaking ground is possible, geotechnical results permit use and/or machinery is available

Installation: 1500 mm pile, 250 mm x 1000 mm deep augered hole, 4 bags of Postcrete per hole

Material: S450 grade steel. Coating ZM310 or ZM800.

Dimensions: 120 mm x 70 mm x 3 mm x 1500 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)



Name: Direct Fix

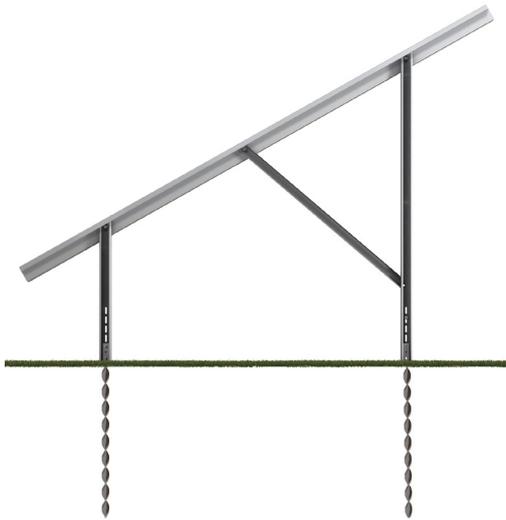
Suitable for: Non-cracked concrete foundations ranging between C20/25 & CS0/60

Installation: Torque controlled expansion bolts fitted into concrete with hand tools

Material: Adjustable upright: S450 grade steel. Coating ZM310 or ZM800. Bolts: High tensile steel hot dipped galvanised to EN 1461

Dimensions: M12 x 145mm torque controlled expansion bolts

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)



Name: Ground Anchor

Suitable for: Sites that require shallow embedment and/or no heavy machinery

Installation: Steel screws driven in with hand tools

Material: Sherardised steel

Dimensions: 50 mm x 1050 mm

Design Codes: Enquire for details

Name: Ground Screw

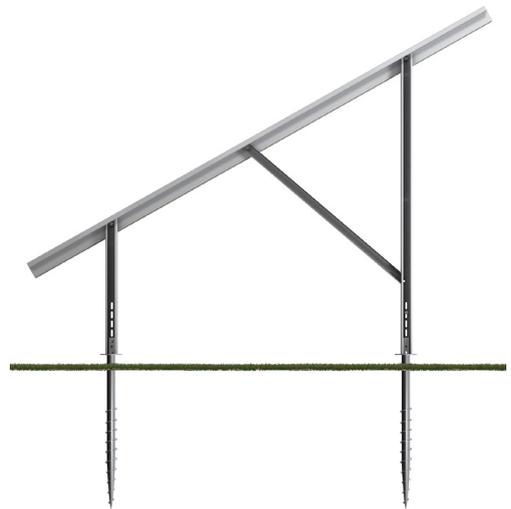
Suitable for: Sites where breaking ground is possible

Installation: By hand and/or with drilling machinery

Material: Q235 steel. Hot dip galvanised to DIN EN ISO 1461

Dimensions: Pipe - 68mm x 2mm x 1200mm.
Flange - 120mm x 5mm

Design Codes: Enquire for details



Further Technical Information & Customer Support

Enquiries:
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Scan to Enquire:

