

COMHAIRLE NAN EILEAN SIAR

The Town and Country Planning Scotland Act 1997 – Section 36(1)

Town and Country Planning General Development Procedure Order 2013 Regulation 16

Panning Register - Part 1

Application Details

Reference Number 24/00298/PPD

Date registered as valid 14/08/2024.

Description of Development Site ground mounted solar PV panels

Address or description of location to

which the development relates Back Free Chruch of Scotland, Back, Isle of Lewis

E 148297 N 940125

Applicant Name Mr Alex Macleod, Back Free Chruch of Scotland

Applicant Address 17b Coll, Isle of Lewis, HS2 OJR

Agent name (if applicable) David Macleod, Total Design (Lighthill) Ltd

Agent address (if applicable) Balard, 68 Lighhill, Back, Isle of Lewis

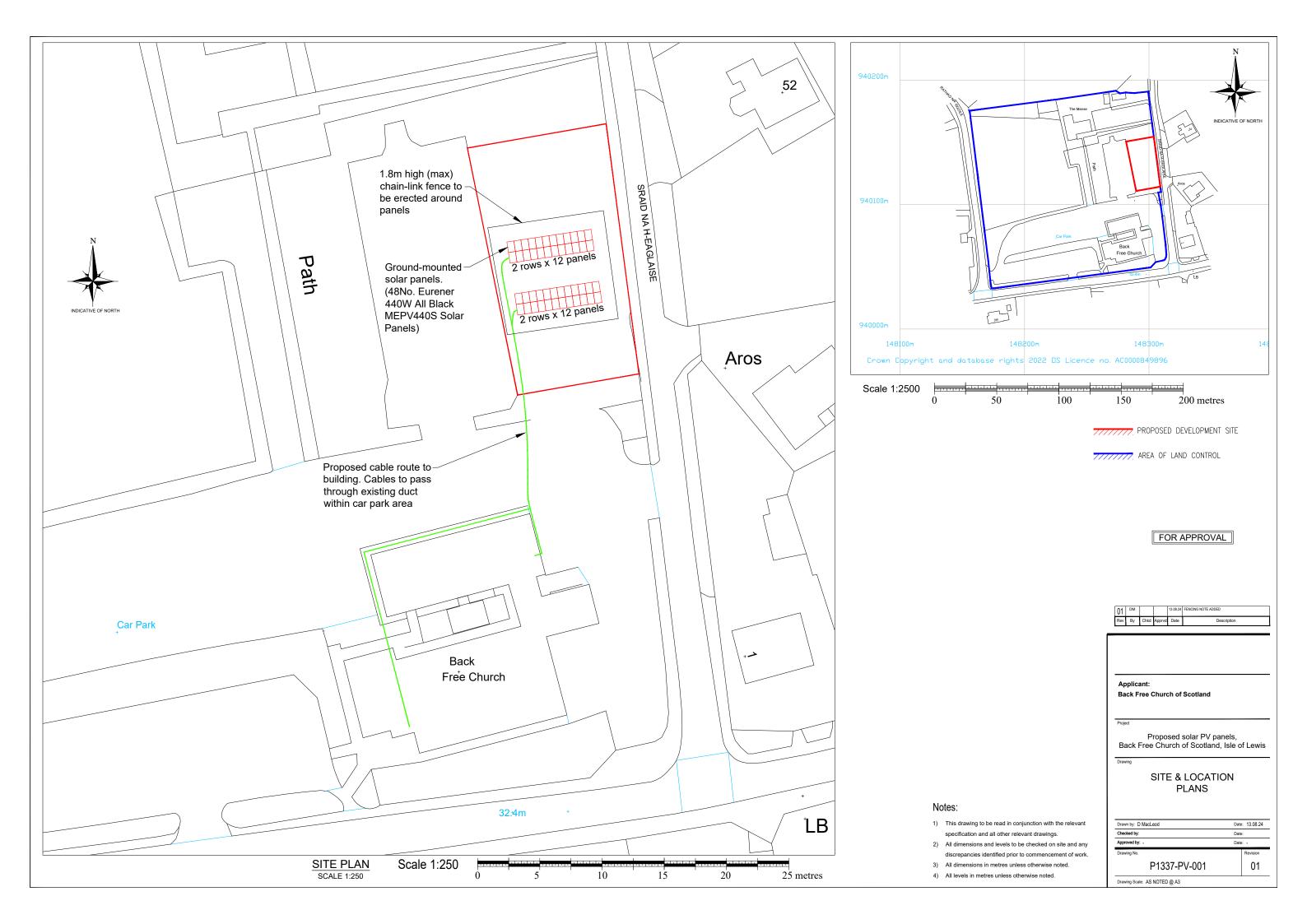
The above application summary is accompanied by plans and drawings sufficient to describe the development and where relevant any design statement.

Important Note: on Tuesday 07 November 2023, Comhairle nan Eilean Siar experienced a criminal cyber incident and is working with Police Scotland, the Scottish Government and the National Cyber Security Centre to investigate the matter.

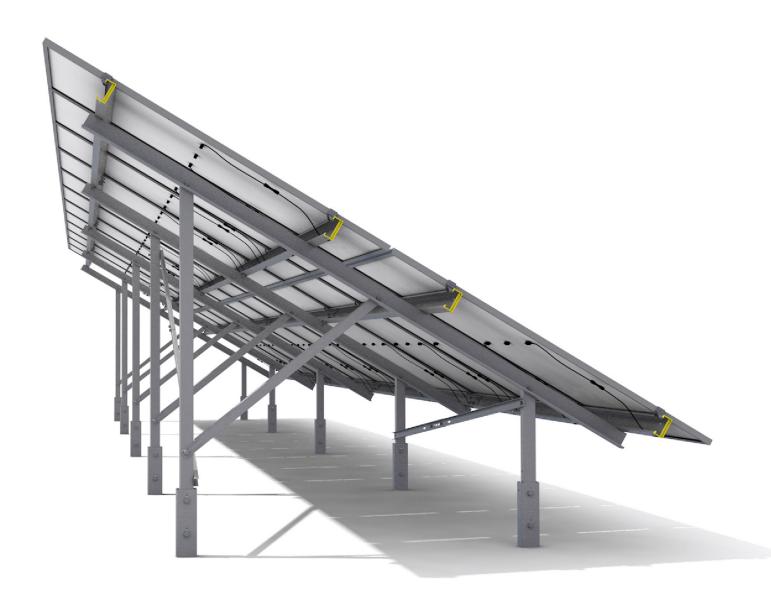
The Online Planning Portal remains unavailable as does our suite of integrated software and hardwaresystems. In order to enable access by the wider public to application documents and consult upon planning applications, interim systems have been put inplace on the temporary website of Comhairle nan Eilean Siar, including a rudimentary facility to display a limited number of documents per application.

Any party wishing to view the application file in full may do so at the offices of Comhairle nan Eilean Siar at Sandwick Road, Stornoway Isle of Lewis, HS1 2BW or Balivanich, Isle of Benbecula. HS7 5LA,

ordinarily between 9am and 5pm Monday to Friday (excluding public and local holidays). It is recommended that in advance of visiting an office to view an application that you make an appointment by sending an email to planning@cne-siar.gov.uk







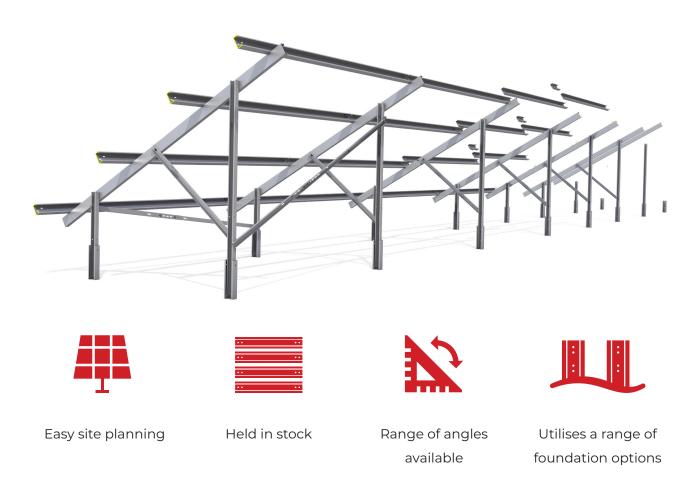




Modular

2-in-portrait ground mount system

For commercial and domestic-scale, held in stock for rapid deployment



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.

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Technical data

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.

2000 mm, 2500 mm, 3000 mm, 3500 mm. Bay pitches:

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

Foundation types: C Pile, V Pile, Concreted Pile, Ballasted, X Anchor, Spirafix,

Direct Fix, Ground Screw

Material specification: S350 & S450 grade steel, coating Z600 or ZM310. Hot rolled steel

(S355JR), hot dipped galvanised to ISO 1461

Wind speed: Fundamental basic UK wind velocity within the UK up to 28m/s

Snow loads: 0.7 kN/m² max

Designed in accordance with BS EN 1991-1-4:2005 + A1:2010. Design codes:

BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

Modular

foundation types and technical data

Install the Modular system with any of the following foundation options



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: S350 & S450 grade steel. Coating Z600 or

ZM310. Hot rolled steel (S355JR). Hot dipped galvanised to ISO 1461

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: S350 & S450 grade steel. Coating Z600 or ZM310.

Hot rolled steel (S355JR). Hot dipped galvanised

to ISO 1461

Dimensions: 102 x 44 x 30 (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)

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Name: Ballasted

Suitable for: Sites where breaking ground is not

permitted (archaeological or geotechincal)

Installation: Steel plates weighted with high density

concrete blocks

Material: S350 & S450 grade steel.

Coating Z600 or ZM310

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 dia x 1000 mm deep

augered hole, 4 bags of Postcrete per hole

Material: S350 & S450 grade steel. Coating Z600 or ZM310.

Hot rolled steel (S355JR). Hot dipped galvanised

to ISO 1461

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: S350 & S450 grade steel.

Coating Z600 or ZM310. 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: Spirafix

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

Website link: https://www.spirafix.com

Name: Ground Screw

Applicable with: Twin post systems

Suitable for: Sites where breaking ground is possible

Installation: By hand and/or with drilling machinery

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

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



Further Technical Information & Customer Support Details:

Modular PV Contacts:

Head of Modular PV:

Peter Bechervaise

Pete.Bechervaise@SolarportSystems.com

Sales Engineer:

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Niall.Davis@SolarportSystems.com

Head Office:

Office Manager:

Lucy Hughes Lucy.Hughes@SolarportSystems.com

Address:

The Core, Gore Cross Business Park, Bridport, Dorset, DT6 3FH





European Experts in Residential Modules

Ultra

MEPV 132 cells — Eurener PV Module

> 440Wp



N-type cell

Higher resistance to LID and LeTID



Back contact technology

Improved energy yield by reducing BB shadowing



Better temperature coeficient

Minimized thermal losses, improved efficiency



Easy to handle

Comfortable installation thanks to an optimized area size



Premium aesthetic

Commercial and residential rooftop integration



Elegant design

Cells free from frontal metallization

























 20_{Years}

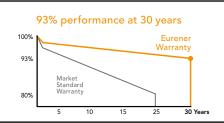
Product Warranty

+5 years for Premium Partners

 30_{Years}

Performance Warranty

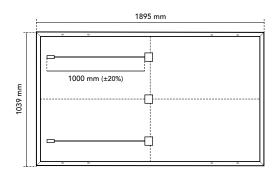
Linear Warranty

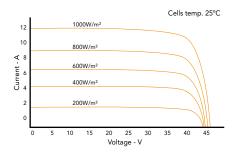


MoreThanEnergy



Eurener MEPV 132 — ULTRA 440Wp





Mechanical Specification	
Solar cells	132 (6 x 22), N-Type monocrystalline silicon cells
Front Glass	3,2 mm thick tempered glass with high strength and ARC
Frame	Black anodized aluminium
Junction Box	IP68, 3 by-pass diodes
Connector	Original MC4-Evo 2
Cable	1000 mm (±20%) length and 4 mm² section
Dimension	1895 x 1039 x 30 mm (±1%)
Area	1,97 m²
Weight and packaging	21 kg, 900 pcs-truck
Temperature Coeficients	
Temperature coeficient of Isc ($lpha$)	0,045 %/°C
Temperature coeficient of Voc (β)	-0,247 %/°C
Temperature coeficient of Pmax (γ)	-0,290 %/°C
Temperature range	-40 °C ~ +85 °C
Nominal operating cell temperature	43 ± 2 °C

Black	MEPV 440
STC: 1000 W/m2, module temperature 25°C, AM 1,5	
Nominal power. Pmax	440 Wp
Module efficiency	22,37 %
Short-circuit current (Isc)	12,06 A
Open-circuit voltage (Voc)	46,30 V
Maximum power current (Imp)	11,12 A
Maximum power voltage (Vmp)	39,60 V
NOCT: 800 W/m2, ambient temperature 20°C, AM 1,5	
Nominal power. Pmax	337,10 W
Short-circuit current (Isc)	9,73 A
Open-circuit voltage (Voc)	44,24 V
Maximum power current (Imp)	8,98 A
Maximum power voltage (Vmp)	37,54 V
Operating parameters	
Maximum voltage	1500 V
Maximum series fuse rating. Ir	20 A
Power output tolerance	0 - +3%
Voc and Isc tolerance	±3%
Fire rating	Class C (UL 790)
Protection class	Class II (IEC 61140)
Hail resistance	HW3/RG3
Mechanical loads	Front load 5400 Pa, Back load 2400 Pa

(NOCT)

NOTE: Read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m², AM 1,5 and cells temperature of 25°C. Measurement tolerance +/-3% (AAA Solar simulation -IEC 60.904-9-). All the information of this brochure may be amended without notice by Eurener. Eurener_MEPV 132_ULTRA_440Wp_EN_JAN2024



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eurener.com