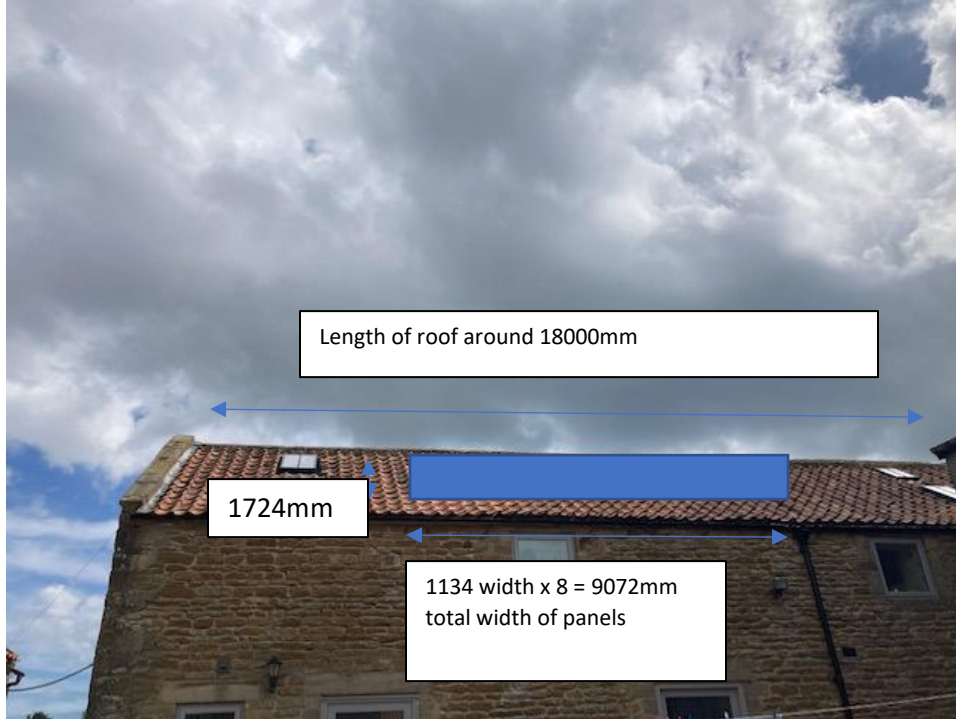


**East Facing Roof**



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**West Facing Roof**



<b>What is significant about the heritage asset?</b>	<b>What works are proposed?</b>	<b>What impact do the works have on the heritage asset affected?</b>	<b>How has the impact of the proposals been minimised ?</b>
<p>The site lies to the North of Scarborough in the hamlet of Suffield, approximately 8.5km from the centre of Scarborough. It is located within the North York Moors National Park. The site and its immediate context is shown on the submitted Site Location Plan.</p> <p>The site sits within open farm land. It is located close to the road and is easily accessible from said road. The farm house is Grade II listed.</p> <p>The listing recorded on Historic England States "Farmhouse. Early C19. Squared sandstone. Pantile roof. Rebuilt brick stacks. Central stairhall plan, 2 rooms deep. 2-storey, symmetrical 3-window front. Central door with rectangular fanlight. 16-pane sashes with stone sills throughout. Plain dressed lintels to all openings. Ground floor windows taller than the upper. Quoined window openings and corners. Coped gables, plain kneelers and end stacks."</p>	<p>The installation of 16 solar panels to the east and west roof slopes at Northfield Granary, Suffield. 8 on the west roof and 8 on the east roof as shown on the annotated photos of the roof slopes. The aim is to provide access to a sustainable energy source in light of changing government focus and a drive for more sustainable energy as well as household energy efficiency. A recent energy performance survey has recommended solar energy is installed.</p>	<p>The installation of the solar panels will not harm the fabric of the building or its setting. They are removable without damage to the fabric of the building should there be a time in the future when they need to be removed due to technological advances, for example.</p> <p>The proposed solar panel installation does not lead to changes to the building's curtilage that would adversely affect its character and appearance or that of the wider landscape. There are also already other properties within the hamlet with solar panels installed on their roofs.</p> <p>While Northfield Granary itself is unlisted it does fall within the curtilage of a listed building. The proposed installation does not impact upon the character of the listed building.</p>	<p>All other energy sources have been given consideration with solar being identified as the most appropriate following an energy performance audit. I do not own any land to install solar panels or wind turbines on. I also do not own any other property to install the solar panels on. Air source pumps are not a viable option in terms of their U Value for our property. Detail of the panels to be installed are provided within this application.</p>

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<p>The barn the request to add the solar panels to is not listed but is curtilage to a listed building. The barn is constructed of stone with a red clay pantile roof and forms the western side of the farm yard. All of the properties at Northfield Farm are lived in by family members.</p>			
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17/07/2023

**Design and Access Statement-Request for installation of Solar Panels at Northfield Granary, Suffield**

We are requesting planning permission for installation of solar panels to the East and West facing roof of Northfield Granary to provide us with a sustainable and efficient source of energy. We initially planned on installing an air source pump but have been advised that this would not be suitable for our property and would result in the need for a lot of electricity consumption to run thus it is not efficient in terms of the environment and financially. We are therefore requesting the installation of solar panels to our property.

We do not own any other buildings/land to which we can install these solar panels.

We note that various properties within our village already have solar panels installed and thus we do not believe the installation would have a negative impact upon aesthetics in any way given that numerous other properties already have them in situ.

We are attaching details of the proposed solar panels to be installed.

**Commented [MW2]:** Get the conversation going by adding comments and using Share (above) to send a link to this doc. It's free! No subscription or sign-in necessary.

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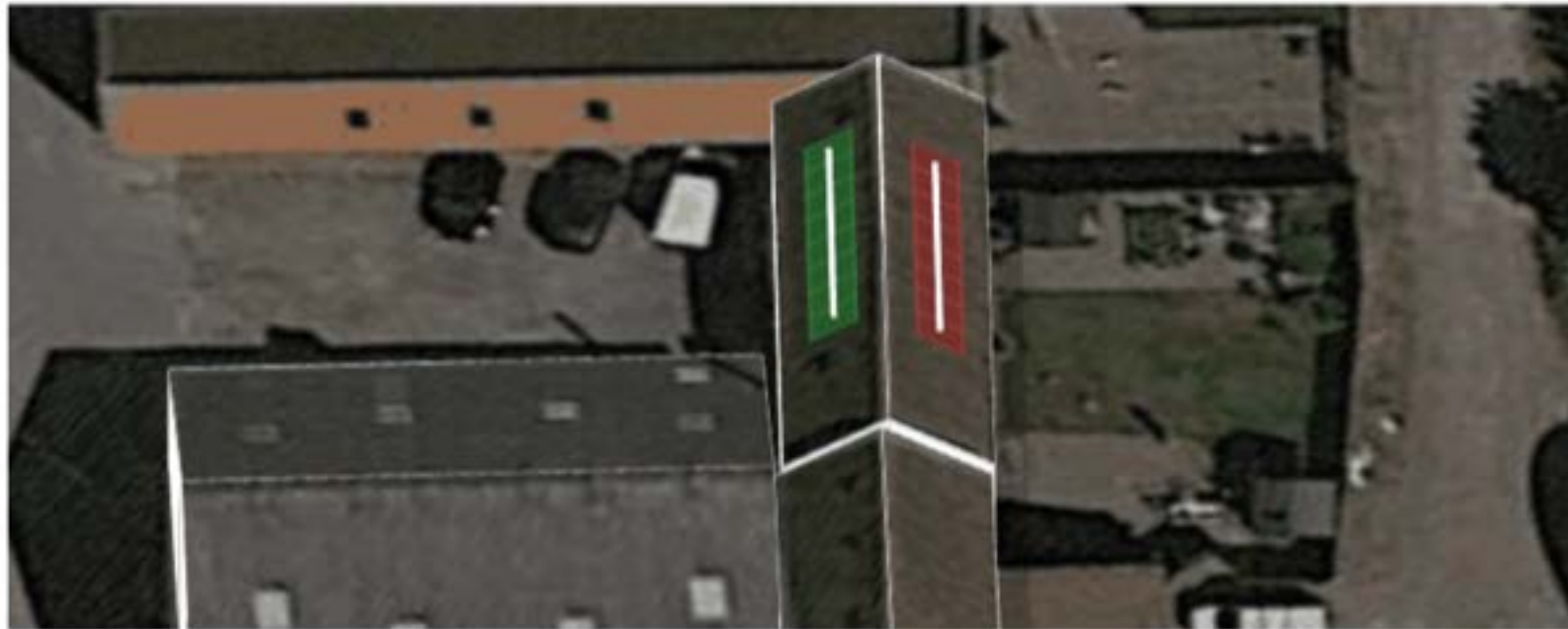


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Northfield Granary, Suffield, YO13 0JR, England



IN DATE

SYSTEM SIZE

MAX DC VOLTAGE

**TECHNICAL FEATURES »**

Eurener\_MEPV 108\_HALF-CUT ICON\_400-420Wp\_2022EN

**FRAME**

Black / Silver anodized aluminium

Robust and resistant to corrosion

**CONNECTION BOX AND PROTECTIONS**

Sealed, robust and wide for heat dissipation

IP67/IP68 according to IEC 60529

Diodes by-pass built-in 3

Connector MC4 compatible

Application Class A. Safety Class II

Cables 1000 mm ( $\pm 20\%$ ) length and 4 mm<sup>2</sup> section**FRONTAL**

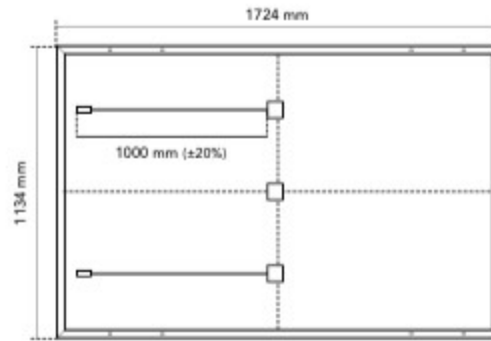
3,2 mm thick tempered glass with high strength and ARC

Textured, extra-clear with low iron content

Frontal load (snow) 5400 Pa | Back load (wind) 2400 Pa

**SOLAR CELLS**

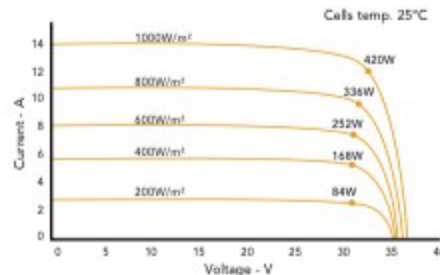
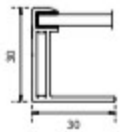
108 [2x (9x6)] cells monocrystalline silicon

**WEIGHT AND DIMENSIONS**21,5 Kg | 1724 x 1134 x 30 mm ( $\pm 1\%$ ) | Pack: 962/936 pcs-truck

Mounting Holes



Frame Section

**ELECTRIC DATA »**

BLACK - STANDARD - BICOLOUR	MEPV 400	MEPV 410	MEPV 415	MEPV 420 STANDARD ONLY
STC: 1000 W/m <sup>2</sup> , module temperature 25°C, AM 1,5				
Nominal power. P <sub>max</sub>	400 Wp	410 Wp	415 Wp	420 Wp
Max. power tolerance. P <sub>max</sub>	0 / +5 W	0 / +5 W	0 / +5 W	0 / +5 W
Area of the module	1,96 m <sup>2</sup>			
Module efficiency	20,46 %	20,97 %	21,23 %	21,48 %
I <sub>sc</sub>	13,79 A	13,95 A	14,02 A	14,10 A
V <sub>oc</sub>	37,07 V	37,32 V	37,45 V	37,57 V
I <sub>mp</sub>	12,90 A	13,04 A	13,13 A	13,21 A
V <sub>mp</sub>	31,01 V	31,45 V	31,61 V	31,81 V
NOCT: 800 W/m <sup>2</sup> , ambient temperature 20°C, AM 1,5				
Nominal power. P <sub>max</sub>	301,96 W	309,98 W	313,85 W	318,35 W
I <sub>sc</sub>	11,03 A	11,16 A	11,22 A	11,30 A
V <sub>oc</sub>	34,88 V	35,23 V	35,37 V	35,54 V
I <sub>mp</sub>	10,32 A	10,43 A	10,50 A	10,56 A
V <sub>mp</sub>	29,26 V	29,72 V	29,89 V	30,15 V
Operating parameters. Temperature coefficients				
Maximum voltage	1000 - 1500 V			
Maximum series fuse rating. I <sub>r</sub>	25 A			
α I <sub>sc</sub>	0,045 % / °C			
β V <sub>oc</sub>	- 0,275 % / °C			
γ P <sub>max</sub>	- 0,35 % / °C			
Temperature range	- 40°C ~ + 85 °C			
NOCT	45 ± 2 °C			

NOTE: Read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m<sup>2</sup>, 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 108\_HALF-CUT ICON\_400-420Wp\_EN\_DIC2022

1997 to 2022

**25<sup>TH</sup>**  
ANNIVERSARY

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Since 1997 our main purpose has been to supply quality and long-lasting photovoltaic modules that allow us and future generations, to continue generating clean energy to take care of our planet.





Monocrystalline Photovoltaic Module »

eurener  
energia solar

# MEPV 108 HALF-CUT ICON

BLACK - STANDARD - BICOLOUR »  
400/410/415/420 Wp

NYMNP A

17/07/2023

## QUALITY »



**MBB technology**  
Better light absorption



**M10 Wafer**  
Ultra-high power



**Long durability**  
80% at the 30th year



**Fire resistance**  
Maximum protection



**Avoid losses**  
Better shading tolerance



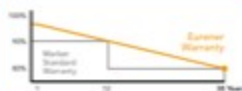
**Efficiency**  
413Wp - 420Wp



## WARRANTIES »

**20 YEARS PRODUCT WARRANTY**  
+5 years for Premium Partners

**30 YEARS PERFORMANCE WARRANTY**  
Linear Warranty



## CERTIFICATES »



## TECHNICAL FEATURES »

Eurener\_MEPV 108\_HALF-CUT ICON\_400-420Wp\_2022EN

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