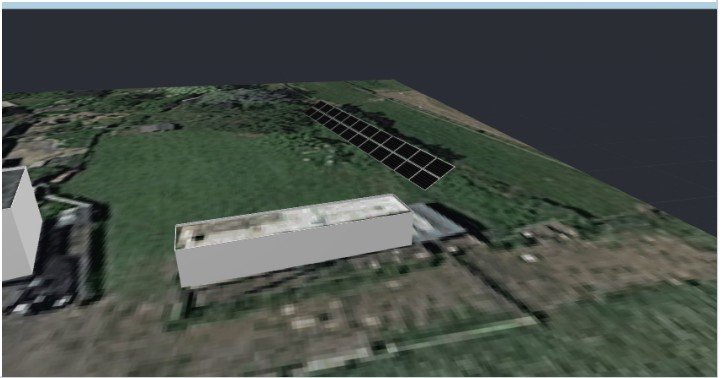
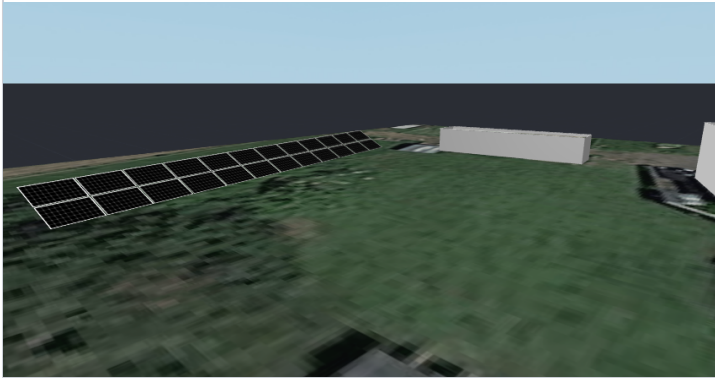


**Q7488 MANOR FARM COTTAGE DAMERHAM**

Cornpits Lane, Fordingbridge, SP6 3HT, United Kingdom | Dave Burrow | 27 Apr 2022



**SYSTEM OVERVIEW**

 **24** PV modules

 **1** Inverters

 **24** Optimizers

**SIMULATION RESULTS**



Installed DC Power

**9.36** kWp



Max Achieved AC Power

**8.00** kW



Annual Energy Production

**10.01** MWh



CO2 Emission Saved

**2.33** t



Equivalent Trees Planted

**107**



Max Achieved DC Power

**9.33** kW



DC/AC Oversizing

**117** %



Max Active AC Power

**8.00** kW



Performance Ratio

**91** %



Performance Index

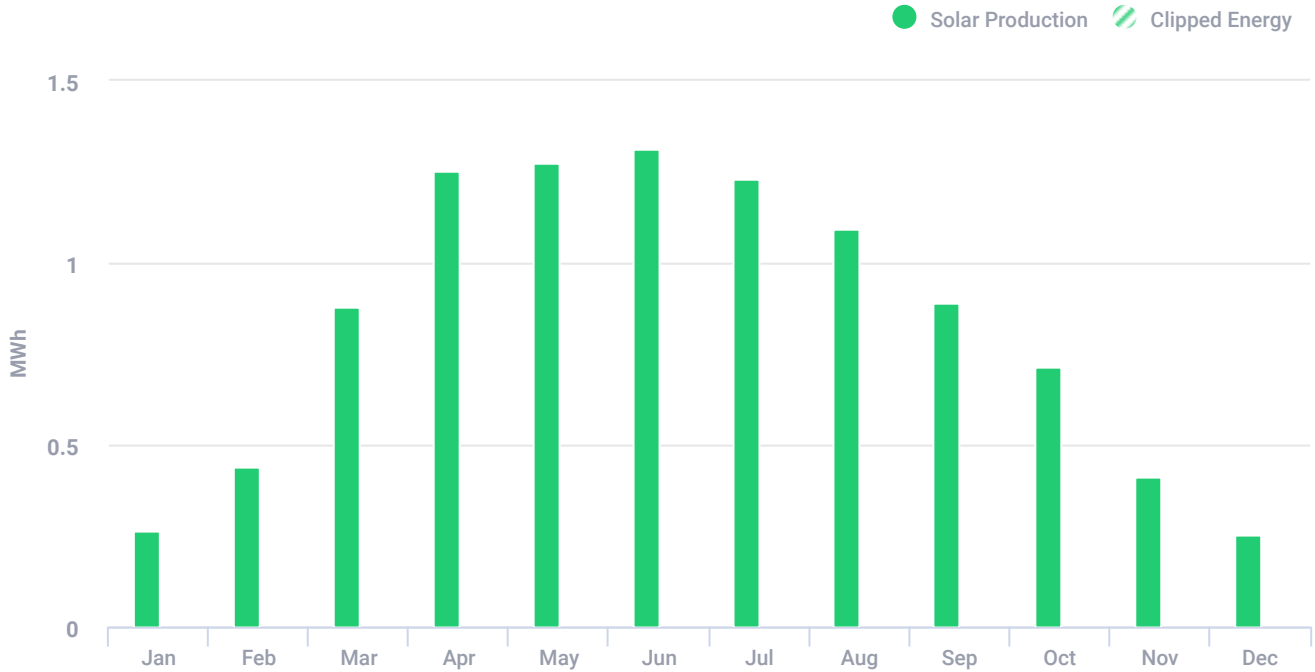
**1,070** kWh/kWp

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#### ESTIMATED MONTHLY ENERGY



Total clipped energy: 0.09%

#### PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
24	Trina Solar Energy, TSM-390DE09.05 (Vertex S)	9.4 kWp			169°	30°
<b>Total:</b>	<b>24</b>	<b>9.4 kWp</b>				

#### BILL OF MATERIALS (BOM)

Items	Quantity	Price (£)	Total (£)
SE8000H	1		
S440	24		
TSM-390DE09.05 (Vertex S)	24		

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### ELECTRICAL DESIGN

Inverters & Storage

Strings per inverter

Optimizers per string

PV modules per string



1 x SE8000H  
9.33kW | 117%

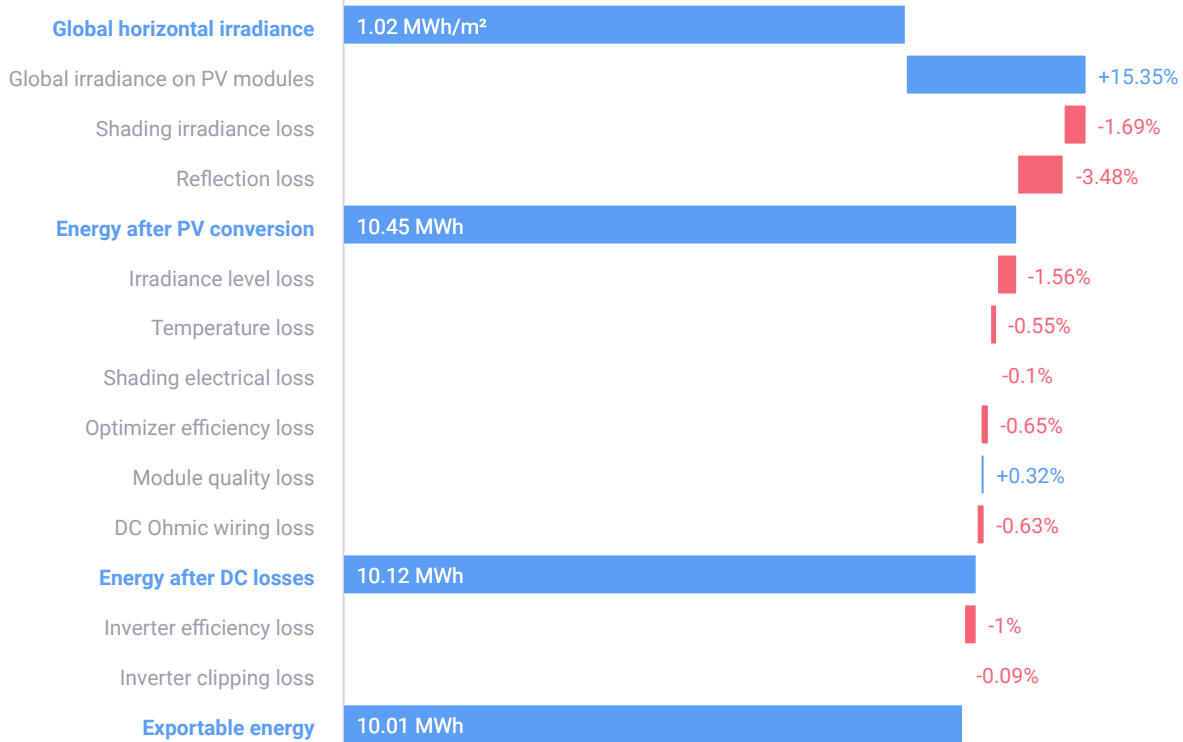
2 x strings



12 x S440

12

### SYSTEM LOSS DIAGRAM



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**SIMULATION PARAMETERS**



**LOCATION & GRID**

Time zone	BST (London)
Weather station	Salisbury (16.76 km away)
Station altitude	63 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N



**LOSS FACTORS**

Near shading	Enabled
Albedo	0.20
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor $U_c$ (const) Flush mount	20
Thermal loss factor $U_c$ (const) Tilted	29
LID loss factor	0%
System unavailability	0%