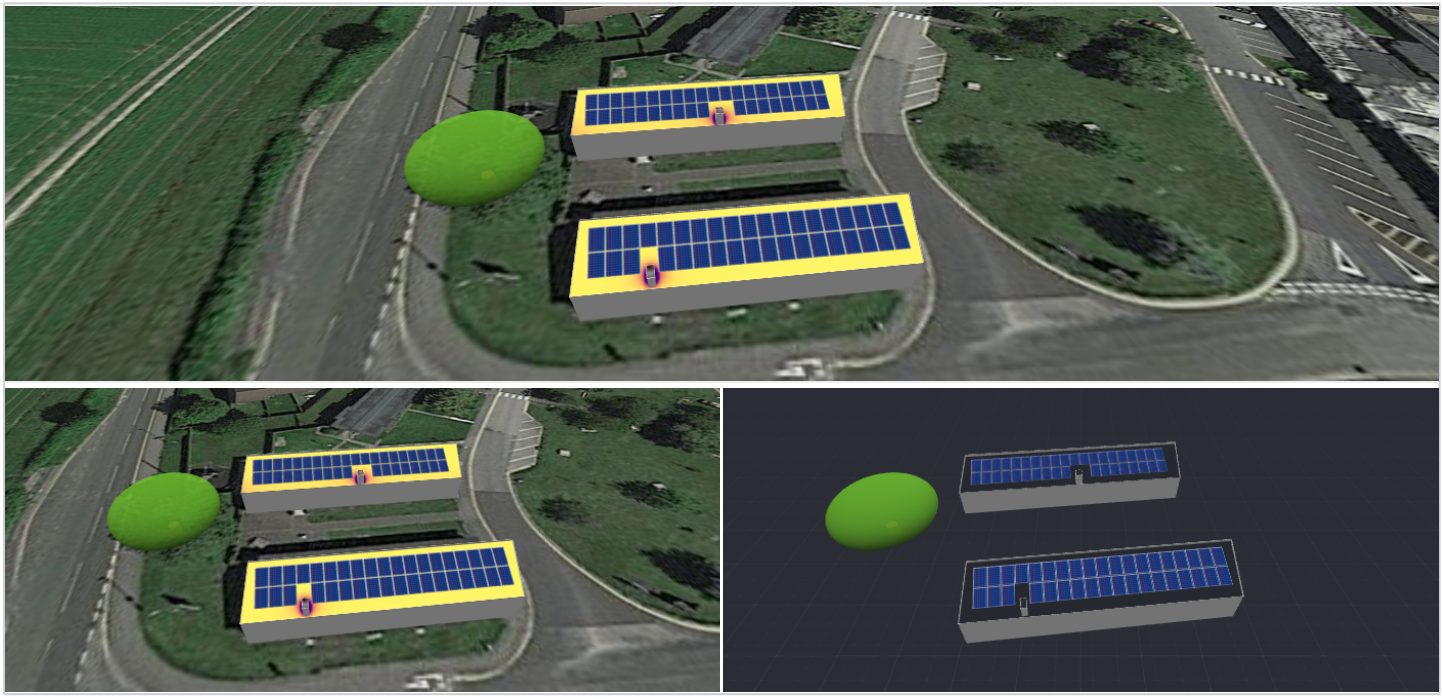
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SYSTEM OVERVIEW

75 PV modules | 1 Inverter | 38 Optimizers

SIMULATION RESULTS

Installed DC Power	Max Achieved AC Power	Annual Energy Production	CO2 Emission Saved (Annually)	Equivalent Trees Planted (Annually)
31.88 kWp	30.00 kW	32.79 MWh	6.34 t	291

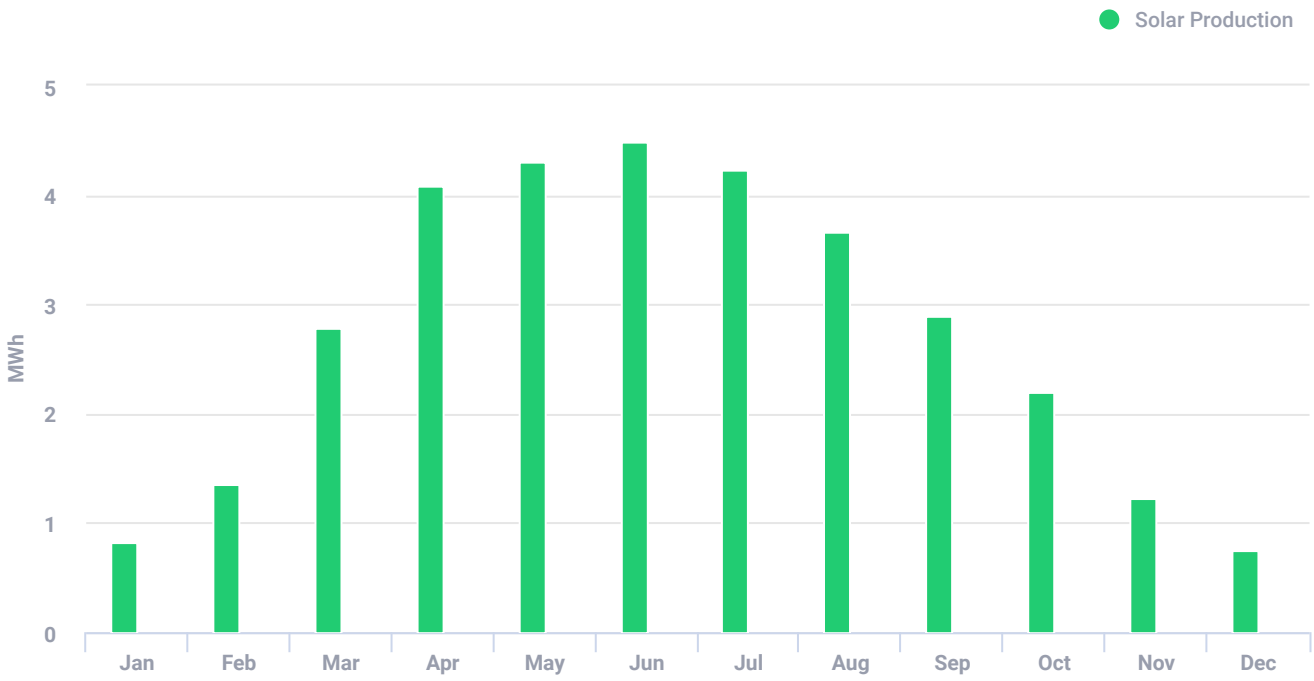
Max Achieved DC Power	DC/AC Oversizing	Max Active AC Power	Performance Ratio	Performance Index
31.36 kW	105 %	30.00 kW	89 %	1,029 kWh/kWp

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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0%

Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	829	-	-	-
Feb	1,350	-	-	-
Mar	2,778	-	-	-
Apr	4,077	-	-	-
May	4,304	-	-	-
Jun	4,486	-	-	-
Jul	4,227	-	-	-
Aug	3,656	-	-	-
Sep	2,892	-	-	-
Oct	2,195	-	-	-
Nov	1,236	-	-	-
Dec	756	-	-	-

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
38	Trina Solar Energy, TSM-425DE09R.08 (user-defined)	16.2 kWp			174°	20°

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PV MODULES (CONTINUED)

# Module		Model	Peak power	Racking type	Orientation	Azimuth	Tilt
	37	Trina Solar Energy, TSM-425DE09R.08 (user-defined)	15.7 kWp			174°	20°
Total:	75		31.9 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
SE30K		1		
P850		38		
TSM-425DE09R.08	MPN : TSM-425W	75	89.15	6,686.25

Total Price: £ 6,686.25

ELECTRICAL DESIGN

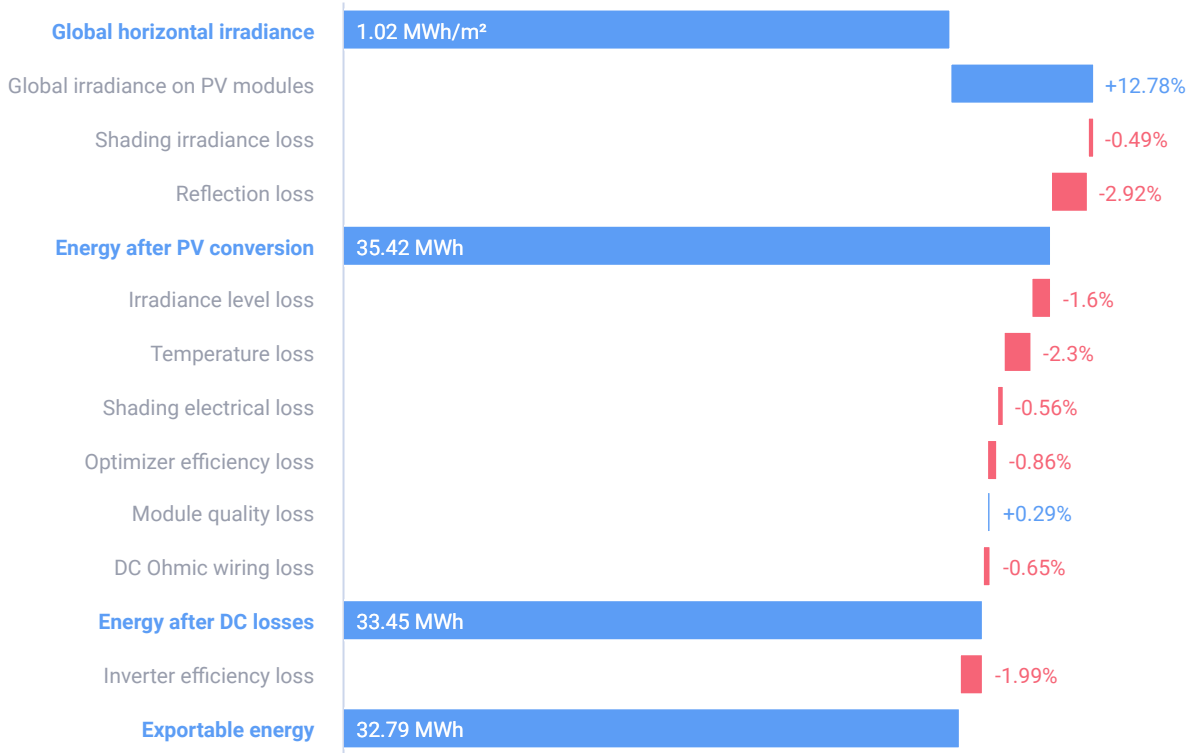
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE30K 31.36kW | 105% Oversizing	1 x string	18 x P850 (2:1), 1 x P850 (1:1)	37
	1 x string	19 x P850 (2:1)	38

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS

LOCATION & GRID

Time zone	GMT (London)
Weather station	Salisbury (4.33 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
Bi-Facial Albedo	0.30
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%