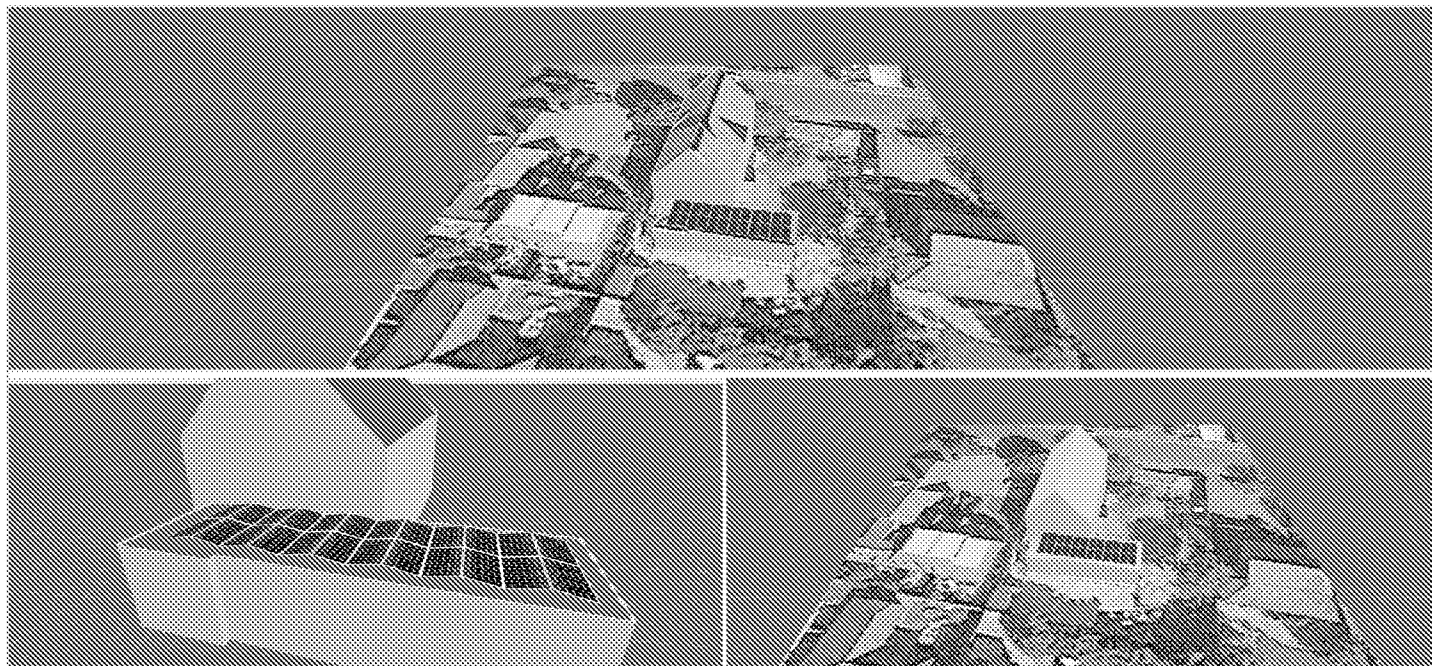


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SYSTEM OVERVIEW



24 PV modules



1 inverters



24 Optimizers



1 Batteries

SIMULATION RESULTS



Installed DC Power

8.28 kWp



Max Achieved AC Power

6.00 kW



Annual Energy Production

7.18 MWh



CO2 Emission Saved

2.02t



Equivalent Trees Planted

93



Max Achieved DC Power

7.30 kW



DC/AC Oversizing

122 %



Max Active AC Power

6.00 kW



Performance Ratio

79 %



Performance Index

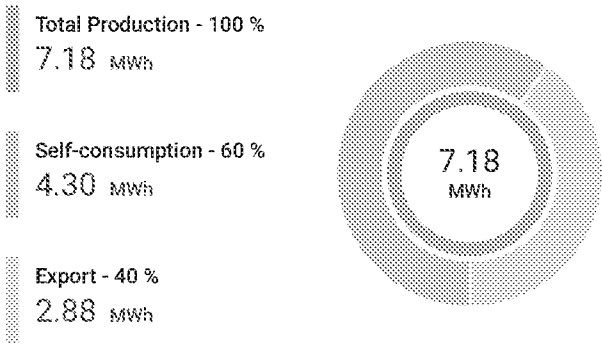
867 kWh/kWp

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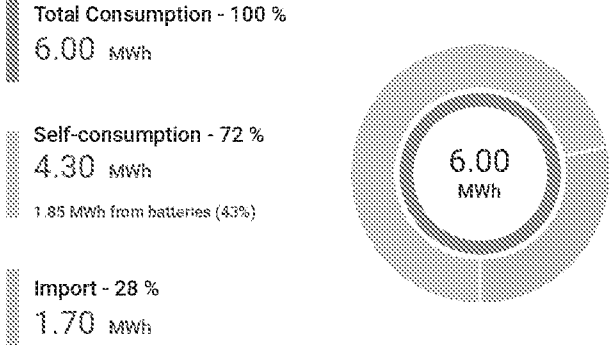
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SYSTEM PRODUCTION



CONSUMPTION

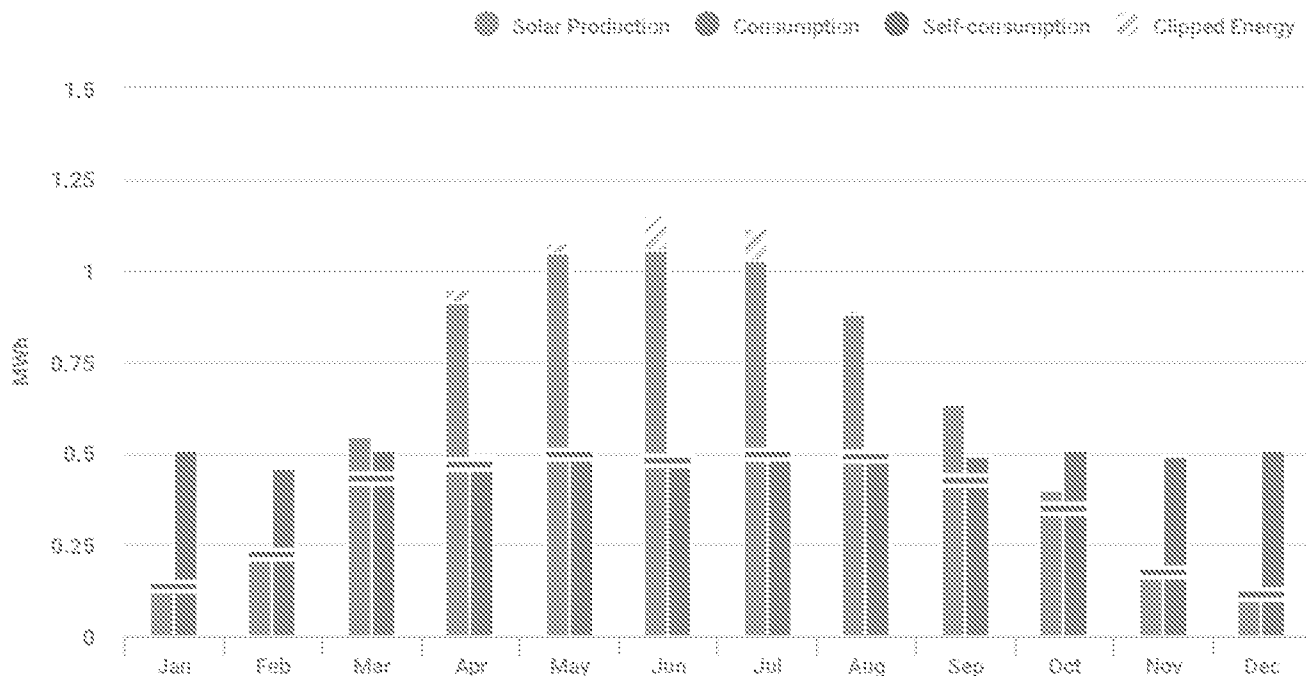


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ESTIMATED MONTHLY ENERGY



Total clipped energy: 3.55%

Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	135	510	135	-
Feb	234	460	227	-
Mar	548	510	434	-
Apr	915	493	468	39
May	1,052	510	499	28
Jun	1,059	493	481	95
Jul	1,028	510	497	91
Aug	890	510	492	11
Sep	632	493	427	3
Oct	402	510	352	-
Nov	176	493	174	-
Dec	115	510	114	-

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
12	JA Solar, JAM60S10-345/MR (1000V)	4.1 kWp			280°	10°

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PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
12	JA Solar, JAM60S10-345/MR (1000V)	4.1 kWp			100°	10°
Total:	24	8.2 kWp				

BILL OF MATERIALS (BOM)

Items	Quantity	Cost (£)	Total (£)
 SE6000H	1		
 P404	24		
 LG Chem RESU10H	1		
 JA Solar, JAM60S10-345/MR (1000V)	24		

ELECTRICAL DESIGN

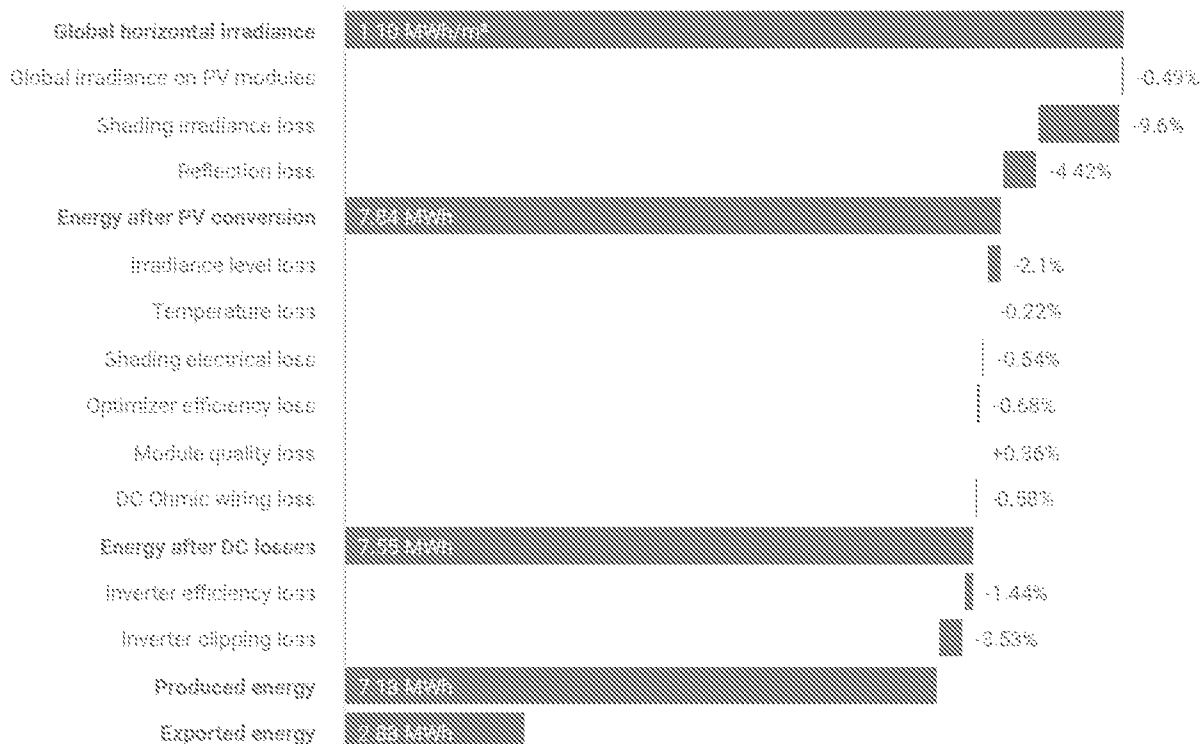
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
<div> (1 SE6000H x) 7.3kW 122%</div> <div> 1 x LG Chem RESU10H</div>	 2 x strings	 12 x P404	 12

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	Fontwell (4.84 km away)
Station altitude	1 m
Station data source	Meteonorm 7.1
Grid	230V L-N
Export limit to grid	3.68 kW



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%