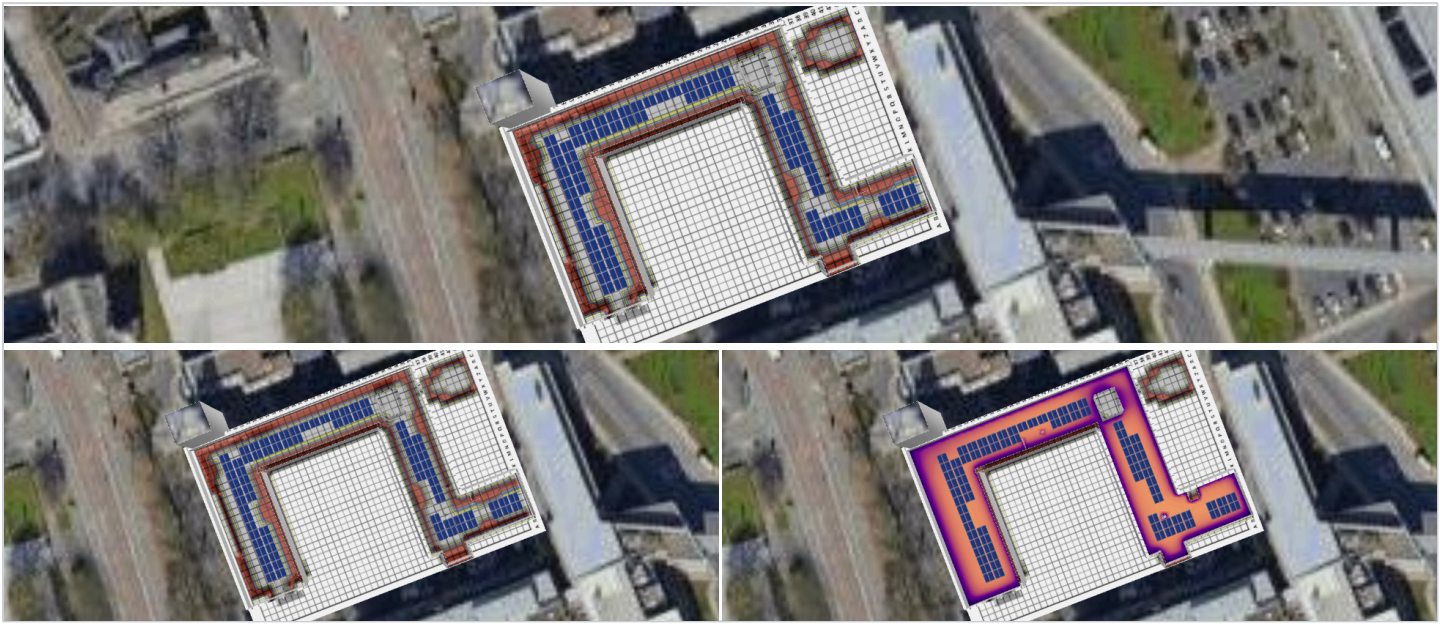
COBBETT HOUSE REDUCED SIZE

B5117 1767, Manchester, M13 9WG, United Kingdom | May 1, 2026



SYSTEM OVERVIEW

158 PV modules | 1 Inverter | 80 Optimizers

SIMULATION RESULTS

Installed DC Power	Max Achieved AC Power	Annual Usable Solar Production	Annual CO_2 Emission Saved	Annual Equivalent Trees Planted
83.74 kWp	60.30 kW	71.00 MWh	13.73 t	631

Max Achieved DC Power	DC/AC Oversizing	Max Active AC Power	Performance Ratio	Annual Specific Production
71.94 kW	108 %	66.60 kW	86 %	848 kWh/kWp

COBBETT HOUSE REDUCED SIZE

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ANNUAL CONSUMPTION AND PRODUCTION RESULTS

Total Production **71.00** MWh



- To Building 0.00 MWh (0%)
- To Grid 71.00 MWh (100%)

Consumption **0.00** Wh

0% Energy from solar

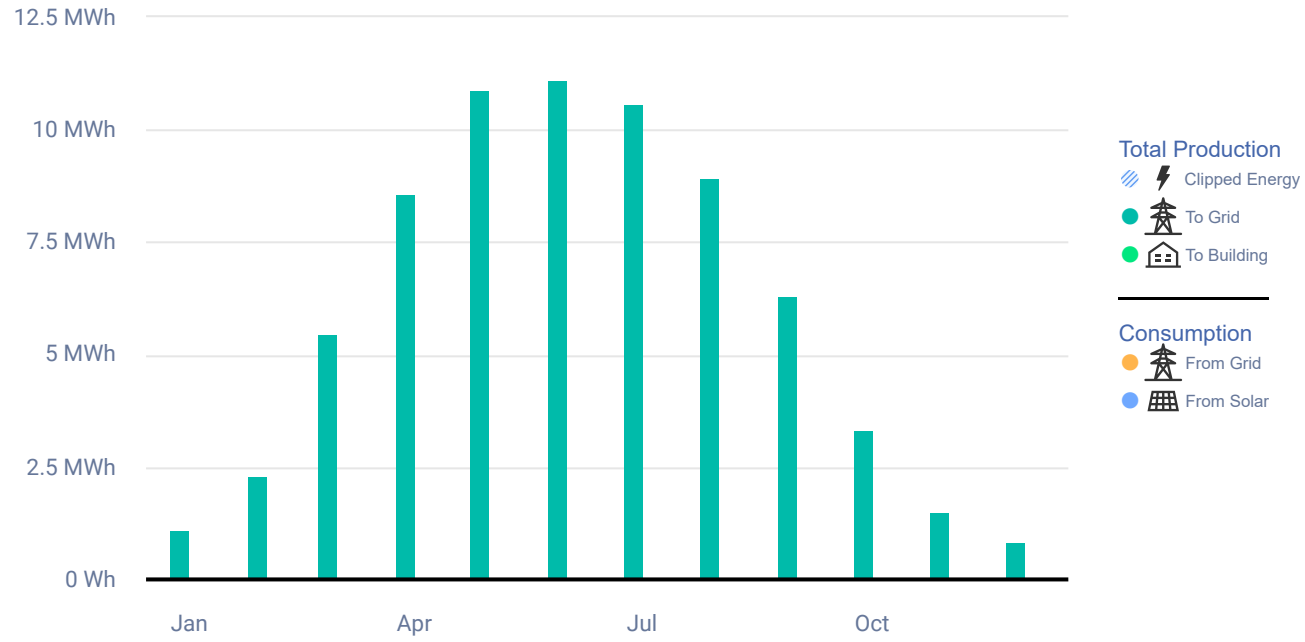
- From Solar 0.00 Wh (0%)
- From Grid 0.00 Wh (0%)

COBBETT HOUSE REDUCED SIZE

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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0%

Month	Production (kWh)	To Home (kWh)	To Grid (kWh)	Clipped Energy (kWh)	Consumption (kWh)	From PV (kWh)	From Grid (kWh)
Jan	1,124	-	1,124	-	-	-	-
Feb	2,316	-	2,316	-	-	-	-
Mar	5,491	-	5,491	-	-	-	-
Apr	8,574	-	8,574	-	-	-	-
May	10,913	-	10,913	2	-	-	-
Jun	11,107	-	11,107	-	-	-	-
Jul	10,565	-	10,565	-	-	-	-
Aug	8,927	-	8,927	-	-	-	-
Sep	6,302	-	6,302	-	-	-	-
Oct	3,317	-	3,317	-	-	-	-
Nov	1,510	-	1,510	-	-	-	-
Dec	854	-	854	-	-	-	-

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PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
79	JA Solar, JAM60D-42-530-LB-TS-BF (user-defined)	41.9 kWp			69°	10°
79	JA Solar, JAM60D-42-530-LB-TS-BF (user-defined)	41.9 kWp			249°	10°
Total: 158		83.7 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity
SE66.6K Synergy Manager 66.6kW with Synergy Technology, DC Safety Switch and DC SPD	SE66.6K-RW00IBNQ4	1
S1000		80
JAM60D-42-530-LB-TS-BF already installed		158

ELECTRICAL DESIGN

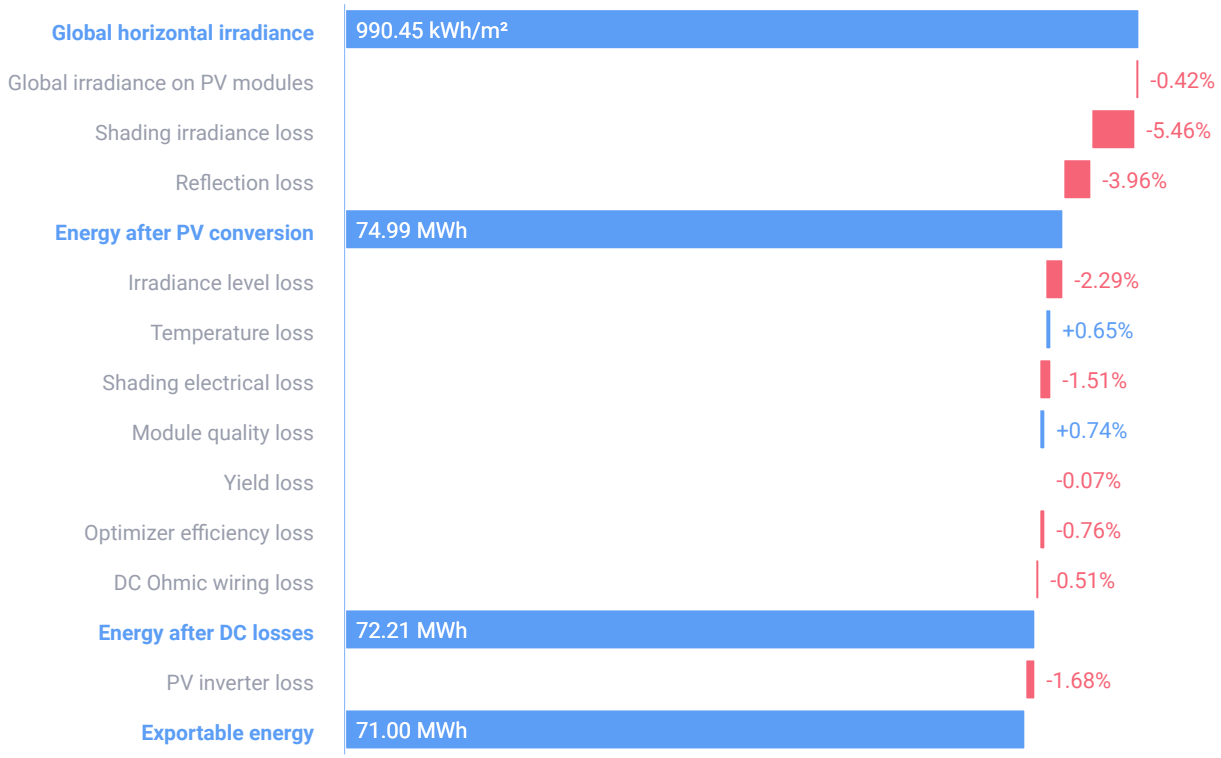
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE66.6K Synergy Manager 71.94kW | 108% Oversizing	**Center Unit**		
	1 x string	17 x S1000 (2:1)	34
	1 x string	16 x S1000 (2:1), 1 x S1000 (1:1)	33
	Left Unit		
	1 x string	16 x S1000 (2:1)	32
	1 x string	15 x S1000 (2:1)	30
	1 x string	14 x S1000 (2:1), 1 x S1000 (1:1)	29

COBBETT HOUSE REDUCED SIZE

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS

LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	Manchester-Ringway (12 km away)
Station altitude	69 m
Station data source	Meteonorm 8.2
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%