

10 HERMITAGE ROAD

Hermitage Road 10, London, N4 1DB, United Kingdom | Laurence Watson | May 13, 2026



NOTIFICATIONS

! Warning: There is a yield loss of 2.65% in this design, please refer to Electrical Design to try and improve your design.



SMART BATTERY

Battery + PV

SolarEdge Home Battery 9.7kWh

Smart Battery Management

Time-of-Use Optimization Mode

Designed to maximize savings. The battery automatically charges when electricity prices are low and discharges when prices rise - reducing your energy costs.

Self-consumption from Batteries

38%

Bill Savings on Battery Lifetime

£ 26,008



Total Storage Capacity

9.7 kWh

Total Battery Power

4 kW

SYSTEM OVERVIEW



25 PV modules



3 Inverters



25 Optimizers



1 Battery

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SIMULATION RESULTS



Installed DC Power

9.38 kWp



Max Achieved AC Power

8.37 kW



Annual Usable Solar Production

6,296 kWh



Annual CO₂ Emission Saved

1.22 t



Annual Equivalent Trees Planted

56

ANNUAL CONSUMPTION AND PRODUCTION RESULTS

Total Production **6,305** kWh 

Consumption **9,999** kWh 

38% Energy from solar with battery

Battery - Energy Sources

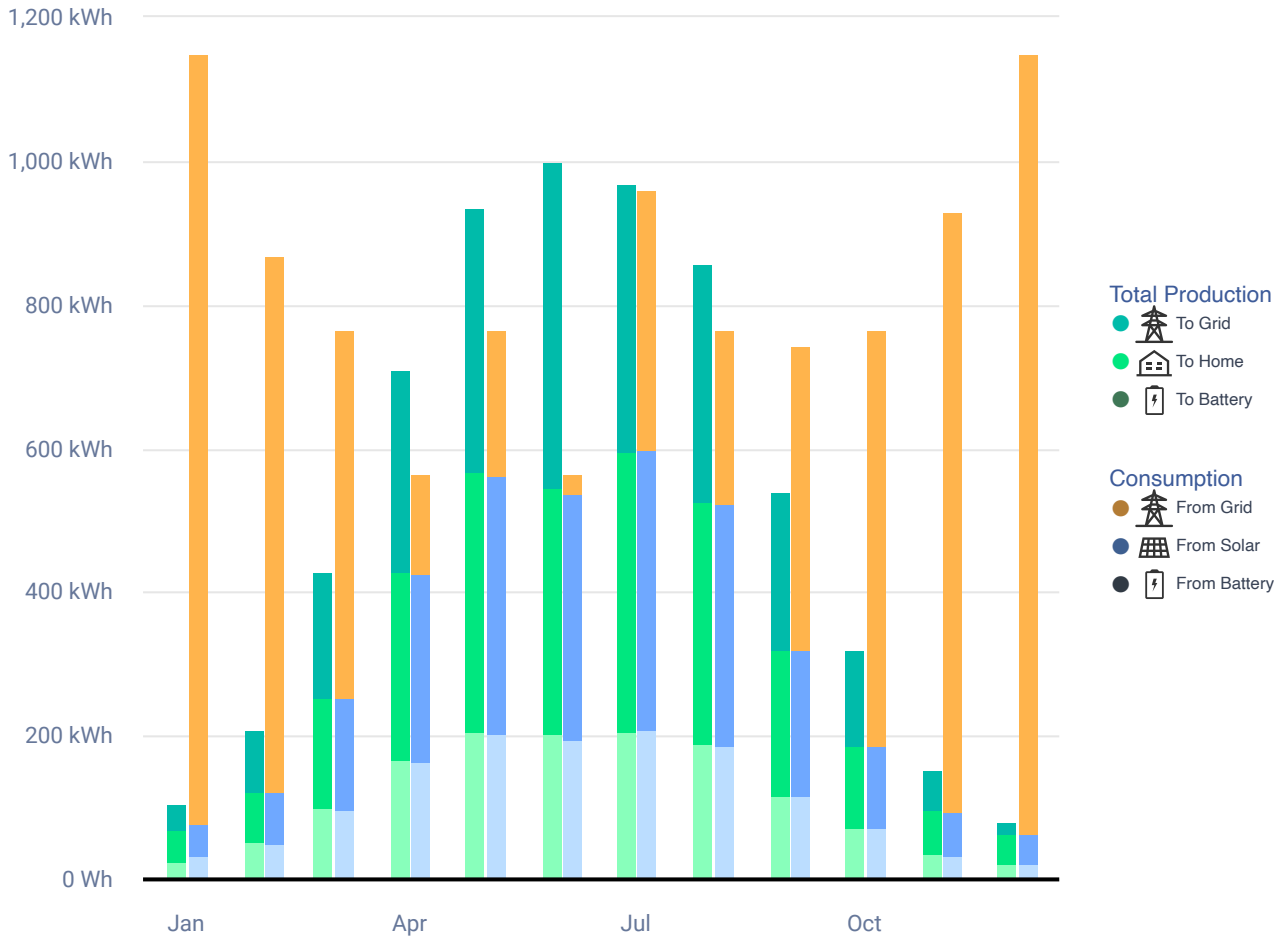
Battery - Energy Destinations

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ESTIMATED MONTHLY ENERGY



Total Clipped Energy PV only: 0%

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
8	SolarEdge, SPV375-R60DWMG	3 kWp			246°	35°
9	SolarEdge, SPV375-R60DWMG	3.4 kWp			73°	33°

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PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
8	SolarEdge, SPV375-R60DWMG	3 kWp			77°	43°
Total:	25	9.4 kWp				

ESTIMATED BILL SAVINGS YEAR 1

Avg. Monthly

Current Monthly Bill

£ 250.33

Monthly Bill with SolarEdge

£ 130.83

Net Bill Monthly Savings

£ 119.50

£15.41 Savings from Battery

Bill Offset

47.74%

6.16% Savings from Battery

Estimated Net Lifetime Bill Savings

£ 26,008

£3,337 Savings from Battery

Utility Provider: UK provider | Utility Rate: 28p (0.28 £/kWh)

BILL OF MATERIALS (BOM)


Items	Part Number	Quantity	Price (£)
SE3680H Home Wave ⓘ Order SE10000H-RWSKBF57 or SE10000H-RWSKBF57 and configure the inverter model as SE3680H Home Wave during commissioning ⓘ 3.68kW "Home Wave" Single Phase Inverter	SE3680H-RW000BEN4	3	485.00 1,455.00
P375		25	
SolarEdge Home Battery 9.7kWh Fox ESS 10kWh ?		1	2500.00 2,500.00

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BILL OF MATERIALS (BOM) (CONTINUED)

Items	Part Number	Quantity	Price (£)
Total (£)			
 SPV375-R60DWMG		25	200.00
			5,000.00
			Total Price: £ 8,955.00

OPTIMIZE YOUR SYSTEM



SolarEdge EV Charger








Drive on sunshine by charging your EV with excess solar energy, fully integrated into the SolarEdge ecosystem.



SolarEdge Meter

Track actual energy consumption and unlock more accurate insights to improve solar savings.

ELECTRICAL DESIGN

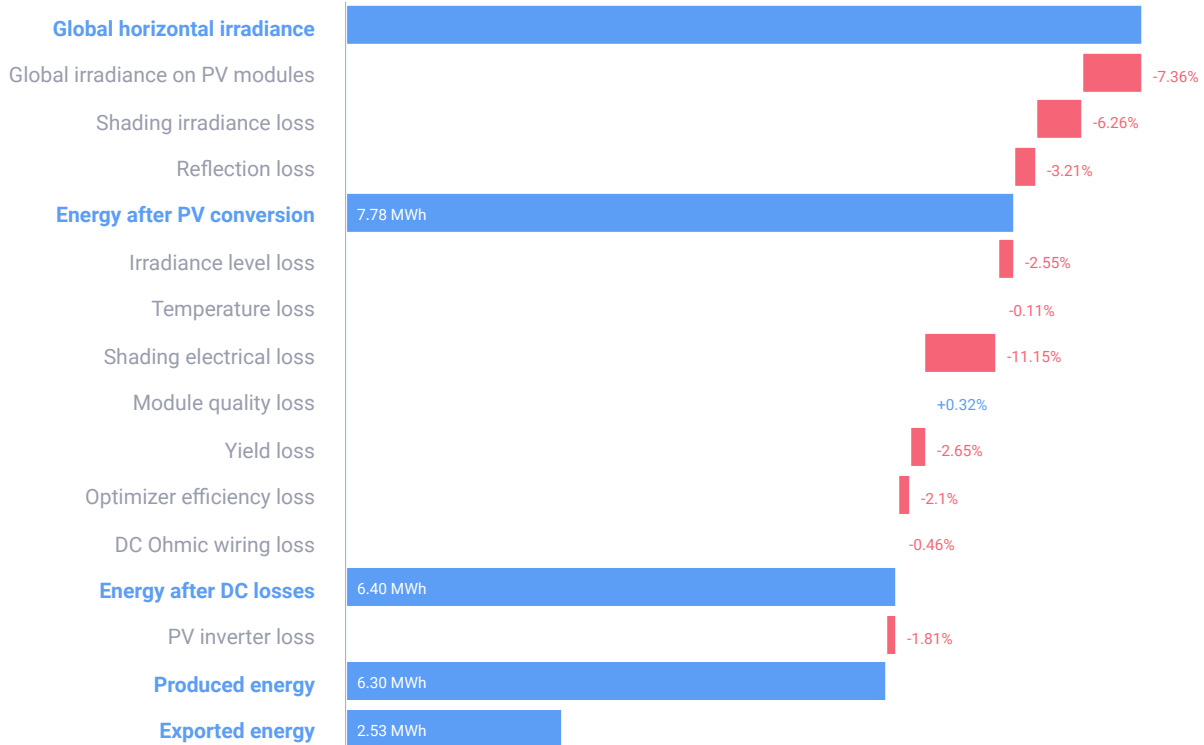
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 xSE3680H Home Wave 2.89kW 79% Oversizing 1 x SolarEdge Home Battery 9.7kWh	1 x string	 9 x P375	 9
 1 xSE3680H Home Wave 2.87kW 78% Oversizing	1 x string	 8 x P375	 8
 1 xSE3680H Home Wave 2.61kW 71% Oversizing	1 x string	 8 x P375	 8

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	London Weather c. (6 km away)
Station altitude	77 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 U _c (const) Flush mount	20
Thermal loss factor U _c (const) Tilted	29
LID loss factor	0%
System unavailability	0%