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**For: Richard Bye**

148 Hellesdon Park Road, Norwich,

NR6 5DR

Quote #: 3094888

Valid until: 12th November 2023



## Solar PV System Quote

**Greensolarfootprint**

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Rackheath, Norwich Norfolk NR13 6NT

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## Recommended System Option

46.2 kW

System Size

£11,889

Estimated Annual  
Electricity Bill Savings

£42,650

Total System Price

£42,650

Net System Price



Map data and image © Google

## Your Solution

### S5 String Inverter - 3PH DC (25K-40K)

40.000kW of Inverter Power

**SOLIS - Ningbo Ginlong Technologies**

1 x S5-GC40K

5.0 Year Warranty Parts & Labour



### Battery

**SolaX Power**

11.6 kWh Total Battery Storage

1 x T-BAT H 11.6

### X3-FIT-15.0-W

15 kW Battery Inverter

1 x X3-FIT-15.0-W

### Solar Panels

**Trina Solar Co., Ltd.**

46.200 kW Total Solar Power

105 x 440 Watt Panels (TSM-440NEG9R.28)

42,056 kWh per year

### Bird Proofing

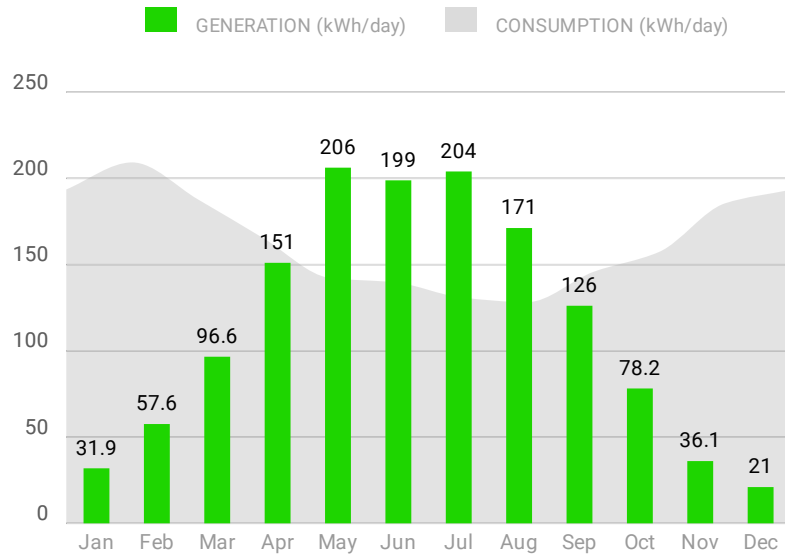
Stainless Steel Bird Proofing Mesh

1 x BRD

Warranties: 25 Year Panel Product Warranty, 30 Year Panel Performance Warranty, 5 Year Inverter Product Warranty, 10 Year Battery Product Warranty

## System Performance

**70%**  
Energy From Solar



<p><b>55%</b> Self-consumption</p>	<p><b>45%</b> Export to grid</p>
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System Performance Assumptions: System Total losses: 12.9%, Inverter losses: 1.7%, Optimizer losses: 0%, Shading losses: 0.1%, Performance Adjustment: 0%, Output Calculator: System Advisor Model 2020.02.29.r2. Panel Orientations: 19 panels with Azimuth 153 and Slope 15, 68 panels with Azimuth 153 and Slope 15, 3 panels with Azimuth 153 and Slope 15, 15 panels with Azimuth 333 and Slope 15.

## Environmental Benefits

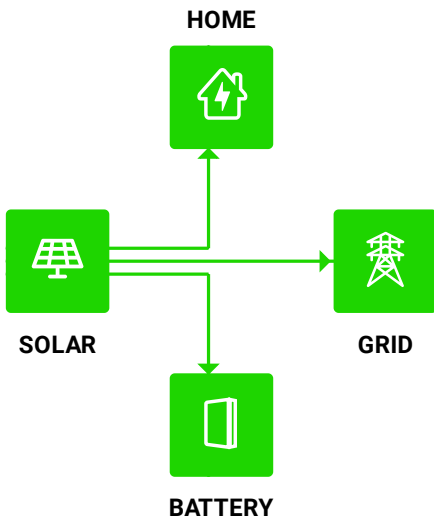
Solar has no emissions. It just silently generates pure, clean energy.



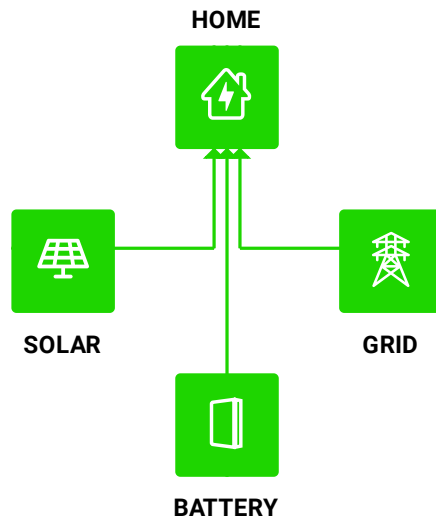
Each Year		Over System Lifetime		
70%	11 tons	318,360	2,047	228
Of CO <sub>2</sub> , SO <sub>x</sub> & NO <sub>x</sub>	Avoided CO <sub>2</sub> per year	Car km avoided	Trees planted	Long haul flights avoided

## How your system works

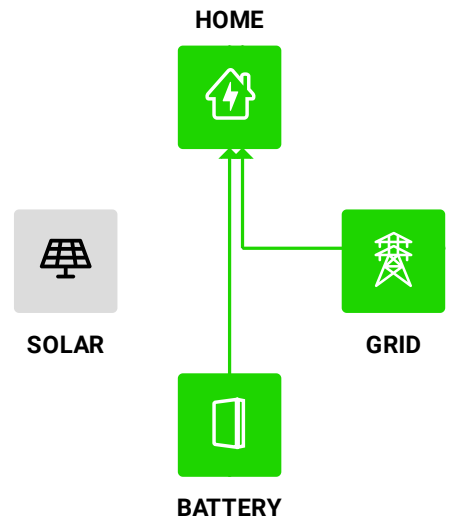
Generating Excess Solar



Partially Offset Usage



Night

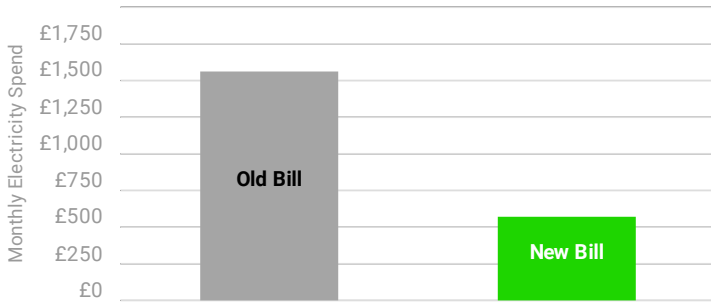




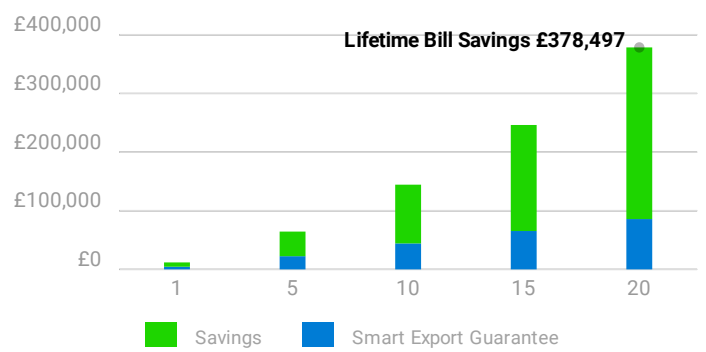


## Electricity Bill Savings

First Year Monthly Bill Savings



Lifetime Bill Savings



Month	Solar Generation (kWh)	Electricity Consumption before solar (kWh)	Electricity Imported after solar (kWh)	Electricity Exported after solar (kWh)	Export Credit (£)	Utility Bill before solar (£)	Utility Bill after solar (£)	Estimated Savings (£)
Jan	989	6,146	5,182	21	5	1,925	1,600	324
Feb	1,612	5,859	4,434	182	44	1,824	1,316	507
Mar	2,994	5,798	3,527	704	169	1,803	907	896
Apr	4,531	4,892	2,354	1,985	476	1,520	242	1278
May	6,392	4,518	1,845	3,704	889	1,419	-321	1740
Jun	5,966	4,139	1,579	3,383	812	1,288	-325	1613
Jul	6,324	4,042	1,516	3,792	910	1,261	-444	1706
Aug	5,307	4,072	1,735	2,955	709	1,280	-181	1462
Sep	3,784	4,191	2,075	1,651	396	1,293	239	1054
Oct	2,424	4,996	3,186	604	145	1,567	824	743
Nov	1,083	5,658	4,601	21	5	1,769	1,407	362
Dec	651	5,802	5,151	0	0	1,789	1,585	205

Your projected energy cost is calculated by considering a 7.0% increase in energy cost each year, due to trends in the raising cost of energy. This estimate is based on your selected preferences, current energy costs and the position and orientation of your roof to calculate the efficiency of the system. Projections are based on estimated usage of 60082 kWh per year, assuming Eco 7 Electricity Electricity Tariff.

Your electricity tariff rates may change as a result of installing the system. You should contact your electricity retailer for further information.

### Proposed Tariff Details - Octopus Energy Eco 7 Electricity (England)

#### Energy Charges

<b>Summer Peak Usage Charge</b> <i>8am-11pm Mon-Fri and,</i> <i>All Day Sat-Sun from 1 Jun to 31 Aug</i>	£0.39 / kWh
<b>Summer Off-Peak Usage Charge</b> <i>11pm-8am Mon-Fri and,</i>	£0.17 / kWh

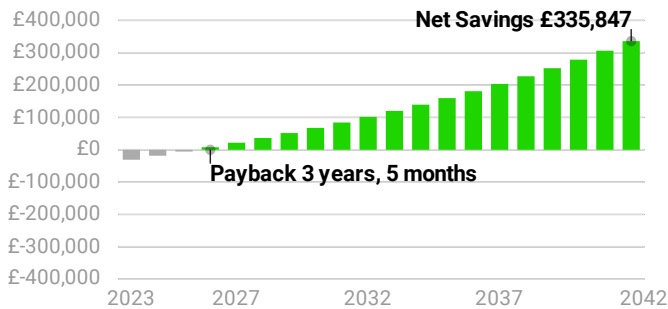


<i>All Day Sat-Sun from 1 Jun to 31 Aug</i>	
<b>Winter Peak Usage Charge</b> <i>8am-11pm Mon-Fri and,</i> <i>All Day Sat-Sun from 1 Sep to 31 May</i>	£0.39 / kWh
<b>Winter Off-Peak Usage Charge</b> <i>11pm-8am Mon-Fri and,</i> <i>All Day Sat-Sun from 1 Sep to 31 May</i>	£0.17 / kWh
<b>Feed-in Tariff</b>	
<b>Feed-In Credit</b> <i>All Day</i>	£0.24 / kWh
<b>Fixed Charges</b>	
<b>Fixed Charge</b>	£15.10 / month

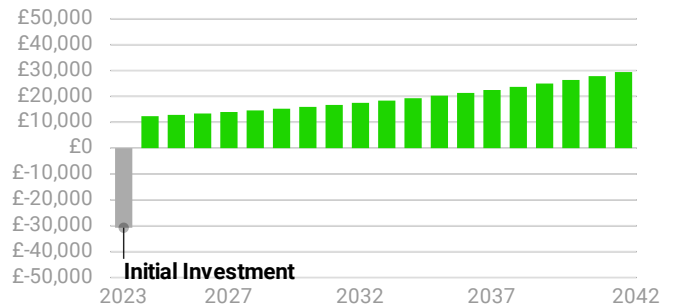
### Net Financial Impact Split

$$\begin{array}{rcl}
 \text{£378,497} & - & \text{£42,650} & = & \text{£335,847} \\
 \text{Utility Bill Savings} & & \text{Net System Cost} & & \text{Estimated Net Savings}
 \end{array}$$

Cumulative Savings From Going Solar



Annual Savings From Going Solar



Estimates do not include replacement costs of equipment not covered by a warranty. Components may need replacement after their warranty period. Financial discount rate assumed: 6.75%



## Quotation

## Payment Option: Split

105 x TSM-440NEG9R.28 440 Watt Panels (Trina Solar Co., Ltd.) 1 x S5-GC40K (SOLIS - Ningbo Ginlong Technologies) 1 x T-BAT H 11.6 (SolaX Power) 1 x X3-FIT-15.0-W, 1 x BRD	
<b>Total System Price</b>	<b>£42,650.00</b> Excluding £0.00 VAT
<b>Purchase Price</b>	<b>£42,650.00</b> Including £0.00 VAT
<b>Deposit Payable</b>	<b>£10,662.50</b>

Price excludes Retailer Smart Meter should you want us to install your Smart Meter it will be an additional cost.  
This proposal is valid until 12th November 2023.

## Payment Milestones

<b>Deposit</b> Deposit for confirmation of order	10,662.50
<b>Material Advance</b> Payment 2 weeks prior to install	10,662.50
<b>Final payment</b> Final and full payment on completion	21,325.00
<b>Total</b>	<b>42,650.00</b>



### Quote Acceptance

I have read & accept the terms and conditions.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

#### Payment Details: Offline Payment

Please pay Green Solar Footprint Ltd

HSBC Bank

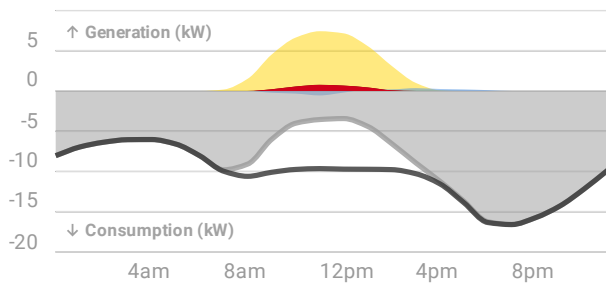
sort code: 40-35-09

account: 63902862

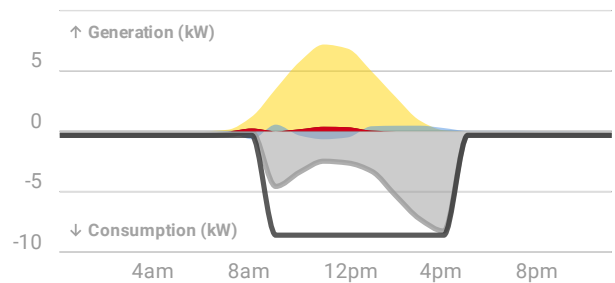
### Daily Energy Flows

■ CONSUMPTION (kWh)   ■ GENERATION (kWh)   ■ BATTERY (kWh)   ■ NET CONSUMPTION (kWh)   ■ EXPORT TO GRID (kWh)

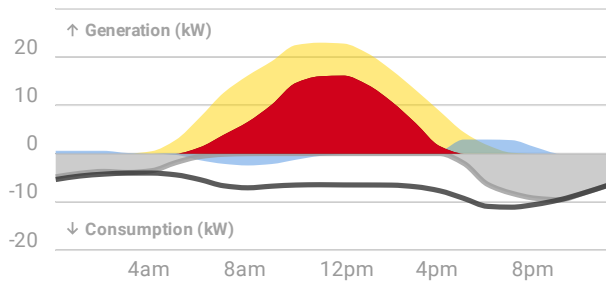
#### Winter Weekday



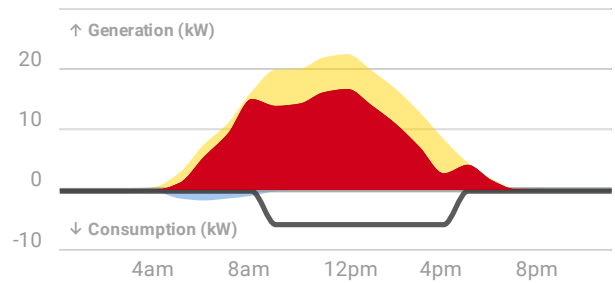
#### Winter Weekend



#### Summer Weekday



#### Summer Weekend



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# S5-GC(25-40)K

## Solis Three Phase Inverters



360 degree

### Model:

400V: S5-GC25K S5-GC30K S5-GC33K S5-GC36K S5-GC40K



#### Efficient

- ▶ Max. efficiency 98.7%
- ▶ String current up to **16A**
- ▶ 3/4 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)
- ▶ Wide voltage range and low startup voltage



#### Safe

- ▶ IP66
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Globally recognised branded componentry for longer life
- ▶ Intelligent redundant fan-cooling



#### Smart

- ▶ Supports export power control
- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Supports RS485, WiFi, GPRS
- ▶ Scan to register on SolisCloud, supports remote upgrade and control



#### Economic

- ▶ Supports GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs
- ▶ Supports aluminium wire access to reduce cost

## Datasheet

Model Name	S5-GC25K	S5-GC30K	S5-GC33K	S5-GC36K	S5-GC40K
<b>Input DC</b>					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 kW
Max. input voltage	1100 V				
Rated voltage	600 V				
Start-up voltage	180 V				
MPPT voltage range	200-1000 V				
Max. input current	32 A / 32 A / 32 A			4*32 A	
Max. short circuit current	50 A / 50 A / 50 A			4*50 A	
MPPT number/Max. input strings number	3/6			4/8	
<b>Output AC</b>					
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
<b>Efficiency</b>					
Max. efficiency	98.5%		98.6%		98.7%
EU efficiency	98.1%		98.2%		98.3%
<b>Protection</b>					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Integrated PID recovery	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>				
Integrated DC switch	Optional				
<b>General Data</b>					
Dimensions (W*H*D)	647*629*252 mm				
Weight	37 kg				
Topology	Transformerless				
Self consumption (night)	<1 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP66				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
<b>Features</b>					
DC connection	MC4 connector				
AC connection	OT terminal				
Display	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.