System Overview

Your system comprises **10 Aiko Neostar 2S 460W All Black ABC N-Type Mono solar panels** to collect sunlight and turn it into DC electricity.

The panels will be connected to **1 X3-MIC-5K-G2 inverter**, which converts the DC electricity into mains (AC) electricity.

We include all the isolators, wiring and meters needed to connect the system safely to your electrical system. Your system will be installed and certified by our trained installation team.





Solar Panels: Aiko Neostar 2S 460W All Black ABC N-Type Mono × 10

Cutting-edge technology, boasting an impressive efficiency of up to 23.1%.

Model	
Power	460 watts
Dimensions	1134 × 1757mm



Inverter: X3-MIC-5K-G2

SolaX 3ph 5kW String Inverter

AC Power	5000 watts
Trackers	2

System Components



Mounting: Renusol pitched roof mounting system

Renusol is a German engineered PV roof mounting system. It is extremely versatile and compatible with the most popular roof coverings used in the UK.

Designed for	Natural Slate roofs
Colour	Not specified

System Performance

We have made an estimate of the annual energy generation of your system using the procedure recommended by the UK's Microgeneration Certification Scheme (MCS). This takes into account the following factors that affect the output of a solar array.

The location of the system

Sunlight is weaker in the north of the UK than in the south, so the tables we use divide the country into a number of zones based on your postcode.

The orientation of the system

Solar panels that face south receive a little more sunlight than panels that face east or west. However, in diffuse light the orientation of the panels makes little difference, so the effect is less marked than many people imagine.

The degree of shading

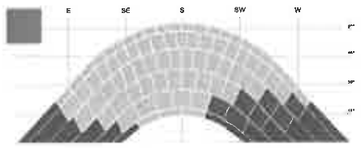
If you have trees, neighbouring buildings or nearby high ground that will shade your PV array, the output of the system will be reduced. We have used a 'sunpath diagram' that estimates how often sunlight will be blocked from reaching the panels.

Roof diagram



Roof East Orientation: -112° Pitch: 30°

Sunpath diagram



Shade factor: 0.92 Kk: 708

We expect your system to generate

2,996 kWh per year

Installation data	
Installation capacity of PV system – kWp (stc)	5 kWp
Orientation of the PV system – degrees from South	-112°
Inclination of system (pitch) – degrees from horizontal	30°
Postcode region	Zone 12
Performance Calculations	
kWh/kWp (Kk)	708
Shade Factor (SF)	0.92
Estimated output (kWp x Kk x SF)	2996 kWh
Estimated PV self-consumption - PV only	
Assumed occupancy archetype	in half the day
Assumed annual electricity consumption	3500kWh
Expected solar PV self-consumption (PV only)	869kWh
Grid electricity independence / self-sufficiency (PV only)	25%

Important note: The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the standard MCS procedure and is given as guidance only for the first year of generation. It should not be considered a guarantee of performance.
If shading is present on your system that will reduce its output to the factor stated. This factor was calculated using the MCS shading methodology and we believe that this will yield results within 10% of the actual energy estimate stated for most systems.