



Unit 2, 1 Avenue Farm Industrial Estate, Stratford-upon-Avon, CV37 0HR

Tel: 01789 262411

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www.stratfordenergy.co.uk

Mr Hassan Majid

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

7th January 2021

Dear Mr Majid,

Q5479

Following your recent enquiry please find our estimate to supply and install Solar Photovoltaic panels. Based on the information provided I have offered two options both using high efficiency SunPower panels with SolarEdge optimization.

- **Option 1** – 12 x SunPower P3 325w All Black panels (3.90kWp)
- **Option 2** – 12 x SunPower Max 3 400w panels (4.80kWp)

SunPower panels have **a combined 25-year product, performance & service warranty**, positive manufacturing tolerance & market leading efficiency of upto 22.6% (Max 3 400w).

Our installation includes:

- all design services
- materials
- scaffold
- installation
- handover folder

Stratford Energy Solutions Ltd. Registered Office:
10 John Street, Stratford-upon-Avon, CV37 6UB. Co. Reg No. 7401473





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Option 1

To supply and install 12 x SunPower P3 325w All Black panels (3.90kWp) with SolarEdge panel optimizers on an on-roof mounting system with all materials & electrical connections and cable to 1 x SolarEdge inverter. Wiring from inverter to AC switch & generation meter.

Included is an energy meter which will provide live data via App to include household energy consumption, Solar generation & export data.

System to be tested, commissioned & MCS certified.

Cost: £5,450 + VAT (at 5%)

Option 2

To supply and install 12 x SunPower Max 3 400w panels (4.80kWp) with SolarEdge panel optimizers on an on-roof mounting system with all materials & electrical connections and cable to 1 x SolarEdge inverter. Wiring from inverter to AC switch & generation meter.

Included is an energy meter which will provide live data via App to include household energy consumption, Solar generation & export data.

System to be tested, commissioned & MCS certified.

Cost: £7,625 + VAT (at 5%)

The above is all subject to site survey.

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Why Sunpower?

When calculating performance and return on investment, Stratford Energy Solutions strictly follow MCS guidelines that are based on industry standard (therefore lower performing) solar panels. **The estimated annual energy generation and income calculations shown above do not take into account the following performance benefits of SunPower technology:**

- More energy from less space: SunPower Maxeon 3 solar panels convert more light into electricity than conventional panels, delivering up to 60% more power per panel
- More electricity: SunPower Maxeon 3 solar panels convert more light to electricity over the life of your system than conventional panels. Which means you produce up to 60% more energy over 25 years and save more on your electricity bills
- More flexibility: Because Maxeon 3 solar panels generate more electricity from a smaller area, you can expand energy production simply by using additional roof space to add more panels later
- More peace of mind from guaranteed power: SunPower panels are designed to deliver consistent, trouble-free energy over a very long lifetime and offer the best combined 25 year power and product warranty
- Superior light capture due to AR glass and AR coating: better low-light performance, better performance under low angle of incidence etc. (up to +5% more light)
- Lower temperature losses (not only lower temperature coefficients, but also lower operating temperatures)
- No Light Induced Degradation. (Conventional solar panels suffer from LID in the first 6 months of exposure to light, typically 3% within the first 48 hours)
- Lower annual degradation rate: No degradation in the first 5 years and only 0.2% maximum degradation thereafter (compared to 1% degradation per year or more for conventional panels) – after 20 years the Sunpower panel will have only degraded in single percentage figures whereas conventional panels will have degraded around 10 times more severely.

More information can be found within the Investment Analysis accompanying this quote and via the following web links:-

- [SunPower Technology](#)
- [SunPower Reliability](#)
- [SunPower Maxeon 3 400w](#)
- [Powering your world](#)

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SolarEdge System

The SolarEdge system harvests up to 25% more solar power from your PV system by effectively managing each individual panel separately. This reduces the load on the inverter and removes any hot spots or system constraints across the photovoltaic energy space from shading or other factors.

The system consists of SolarEdge power optimizers and a SolarEdge HD Wave PV inverter with 99% efficiency.

The SolarEdge power optimizer is a DC/DC converter which is connected to each PV module, replacing the traditional solar junction box. SolarEdge power optimizers increase energy output from PV systems by constantly tracking the maximum power point (MPPT) of each module individually for optimal system performance. Each power optimizer is equipped with the unique SafeDC™ feature which automatically shuts down modules' DC voltage whenever the inverter or grid power is shut down.

Because MPPT and voltage management are handled separately for each module by the power optimizer, the inverter is only responsible for DC to AC inversion. Consequently, it is a less complicated, more cost effective, more reliable solar inverter with a standard 12 year warranty, extendable to 20 or 25 years.

The fixed string voltage ensures operation at the highest efficiency at all times (>99% weighted efficiency) independent of string length and temperature.

The power optimizers monitor the performance of each module and communicates performance data to the SolarEdge monitoring portal for enhanced, cost-effective module-level maintenance.

More information can be found via the following web link:-

- [SolarEdge Technology Overview](#)

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Free Hot Water

Using a device that diverts surplus solar generated electricity to the immersion it is possible to heat your water with Solar. [Click here](#) for more info.

Additional Cost: £495*

Energy Storage

The Tesla Powerwall 2 is a home battery that charges using electricity generated from solar panels, or when utility rates are low, and powers your home in the evening. Automated, compact and simple to install, Powerwall 2 with a 13.5kWh capacity enables you to maximise self-consumption of solar power generation. In the event of a grid power failure then the Powerwall can provide backup power subject to the stored capacity.

The Powerwall 2 will require an isolator to be fitted prior to installation if you do not have one already installed. This can be done by your DNO or energy provider.

More information can be found by following the link below:

- [Energy Storage](#)

Additional cost from £7,495*

***all prices + VAT at applicable rate.**

I hope we have interpreted your requirements but if you have any queries please do not hesitate to contact us.

In the meantime, we look forward to your next instruction.

Yours sincerely,

Henri Collins

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