

See below some information on the solar companies we are proud to work with:

### **Perlight Solar**

Perlight solar panels are produced in a highly-automated facility to strict quality control standards, and are a well-known brand in the industry. With a wide range of outputs and a reputation for innovation, Perlight panels are suitable for domestic and commercial installations alike.

### **Longi Solar**

Longi is the world's largest producer of mono silicon wafers, supplying more than 30GW of solar wafers and modules across the globe yearly, accounting for around a quarter of global market demand.

Longi invests heavily in R&D, and their panel production arm specialises in monocrystalline, manufacturing exclusively high output PERC and bi-facial modules for supply to both utility scale projects and distribution.

By treating their PERC cells to reduce light-induced degradation, Longi panels offer a better lifetime yield than standard mono panels.

### **SolarEdge Smart Modules**

SolarEdge Smart Solar modules are integrated with SolarEdge power optimisers to maximise panel performance and facilitate individual panel monitoring. Integrating the optimiser and the panel means a simpler installation process, and quicker mapping of the array in the monitoring app.

Optimisers track and modulate the performance of each module, to overcome any differences resulting from shading, orientation, or module mismatch. The SolarEdge optimiser system will reduce the impact of these differences to maximise the power of the system and ensure a quicker return on the investment for domestic and commercial installations.

The SolarEdge also includes module-level monitoring via an online portal which is compatible with smartphone apps.

The SolarEdge optimisers carry a 25-year warranty and feature a unique SafeDC™ mechanism which shuts down DC voltage and current of every module as soon as the system is disconnected from the AC supply for greater safety during maintenance or in the event of a fire. The modules themselves carry a 15-year warranty.

## **Jinko Solar**

Jinko Solar is one of the most innovative solar module manufacturers in the world, and have been vying for the position of the largest solar manufacturer. Thanks to their focus on R&D, they were among the first to offer leading efficiencies and performance with their N-type mono products and have a wide range of panels to suit both the domestic and the C&I markets.

We now stock the hugely exciting N-type tiger panels as well, which offer some of the best efficiency ratings around. On top of that they come with an extensive **25-year product warranty** (on the all black versions) and **30 year performance warranty**. Annual degradation is far lower than P-type modules, with **output expected to be over 87% after 30 years!**

## **Q Cell**

Hanwha Q Cells is one of the largest solar panel manufacturers in the world, with global headquarters in South Korea and an innovation HQ in Germany. They have a strong focus on R&D and a wide range of panel options, as well as some impressive real-world performance test results.

Our range includes their standard PERC black mono which is great value for money, and the Duo range of split cell panels, which offer high outputs and improved panel efficiencies thanks to the reduced resistive losses offered by half cut cell circuits.

## **JA Solar**

JA Solar primarily makes monocrystalline modules — you won't find polycrystalline or thin-film panels in their product line. Although there are panels for standard home installations, it seems that the company makes an emphasis on PV modules for commercial and industrial-size projects. There are monofacial as well as bifacial solar panels for sale. Bifacial modules are quite popular when it comes to building solar farms and systems of a large scale as they harvest up to 30% more energy than standard monofacial panels.

PV modules from JA Solar show great efficiency which typically ranges from 19% to 21% — great for building any kind of system and higher than average numbers on the market. The panels may not have the most outstanding design, but they are very durable and perform well in extreme weather conditions. A JA Solar panel can withstand a 210 mph wind which makes this brand a great choice for areas where hurricanes and tornadoes come regularly.

### **Canadian Solar**

The Manufacturer makes panels for all kinds of applications: residential, business, industrial- size solar projects. There are bifacial modules in addition to standard mono facial panels.

Canadian Solar panels come at a fairly low price and show impressive efficiency that ranges in their latest models from 19 to 21.3%. The power output of their modules goes as high as 600W. The PV modules of Canadian Solar excels in low-light conditions, such as bad weather or winter days: the panels lose very little performance even when clouds are thick. Panels are protected by a 12-year product and 25-year performance warranty

### **Panasonic Solar**

Panasonic is one of the most reliable companies in solar technology. Their experience in this field dates back to the 1970s when modules were developed and sold under the Sanyo brand. Since then, they've grown to sell over 3 million modules across the globe.

With a solar system, you are making a long-term and high-value investment, hence the quality of the modules is of great importance. Choosing a renowned brand will give you a reliable guarantee you can trust. With Panasonic solar panels, you can be sure that you're getting quality that will last the test of time.