

# ELAT Solar launches new solar panel brand to revolutionize the renewable energy industry

Founded by experienced installers who recognized the limitations of existing brands

**In today's world, the demand for renewable energy sources has never been higher. As we continue to realize the importance of preserving our planet, the need for sustainable energy has become a top priority. That's why we're excited to announce the launch of a new top-of-the-line solar panel brand: ELAT Solar.**

ELAT Solar has been developed by a team of experts with years of experience in the solar energy industry. They have created three different solar panels that are both efficient and reliable, making them the perfect solution for those looking to switch to renewable energy sources. Their solar panels are built to withstand harsh weather conditions and provide consistent energy production for years to come. ELAT Solar is based in the ELAT region, also known as the Eindhoven, Leuven, Aachen triangle. This region, which spans across Belgium, the Netherlands and Germany, is known for its thriving technology industry. ELAT Solar's focus on cutting-edge technology is evident in the features they have incorporated into their solar panels. ELAT Solar stands out in the solar industry by combining TOPCon technology and full black solar panels.

## Founded by experienced installers

ELAT Solar was founded by a team of experienced solar panel installers who recognized the problems and limitations of the solar panel market first-hand. They saw a need for a more advanced and reliable solution for consumers looking to make the switch to renewable energy. The team observed that existing solar panel brands often had unsatisfactory efficiency rates, limited warranties and poor customer service. The sleek design in full black gives the solar panels a modern look and feel. The team saw an opportunity to create a new brand that would address these issues and provide customers with a better experience.

By founding ELAT Solar, the team has not only addressed the problems they faced as installers, but also created a solution for others in the renewable energy industry. Their experience has given them a unique perspective and allowed them to create a product that meets the needs of both consumers and installers. With their cutting-edge technology, sleek design and focus on sustainability, ELAT Solar is poised to make a significant impact in the solar panel market.

## Powered by TOPCon technology and 38-year warranty

ELAT Solar's panels incorporate TOPCon technology, which stands for Tunnel Oxide Passivated Contact. This technology offers a range of benefits compared to traditional solar panels. TOPCon technology allows for maximum energy production, increasing cell efficiency up to 22%. This technology also reduces recombination losses, allowing for better performance in low-light conditions. In addition to these benefits, TOPCon technology also improves the durability of solar panels, making them more resistant to wear and tear over time.

These solar panels aim to improve the efficiency of solar cells. Traditional solar cells use metal contacts to collect the electricity generated by the cell. The issue with that is, these contacts can also block some of the incoming light. That leads to a reduction in efficiency of the cell. TOPCon technology addresses this problem by using a thin layer of insulating material (a tunneling oxide layer) between the metal contact and the solar cell. This layer creates a tunneling junction that allows for better electron transport and collection, resulting in higher cell efficiencies. Thanks to the passivation of the cell surface with a thin layer of silicon oxide, the rate of electron recombination is also reduced. TOPCon solar panels therefore also perform better in low-light conditions. This makes them ideal for use in areas with less sunlight, such as cloudy or shaded regions. The thin oxide layer also protects the cell from extreme environmental factors, such as moisture and temperature fluctuations, that can generally cause degradation. This also means that the technology ensures a higher durability, since they are less susceptible to degradation over time.

ELAT Solar offers a 38-year warranty on their glass-glass solar panels, ensuring that their customers have a reliable source of renewable energy for years to come. With their commitment to sustainability, and customer satisfaction.

The technology is also less complex to manufacture compared to other technologies like heterojunction technology (HJT) and interdigitated back contact (IBC), allowing for smooth manufacturing upgrades. ELAT Solar's use of TOPCon technology sets them apart from other solar panel brands and makes their panels a top choice for those looking to make the switch to renewable energy.

## Full Black Solar Panels

ELAT Solar offers a range of top-of-the-line full black solar panels that are built to last. Their panels are designed to withstand harsh weather conditions and provide consistent energy production for years to come.

The main, most visible advantage of this difference in the production process is obviously that full black panels are much more attractive to look at. Usually using a complete black backsheet (so the solar cells even blend in better), black frame and their typical black solar cells, they have a very sleek and modern look. A determining factor for lots of people when choosing which solar panel they want for their home.

But it's needless to say that full black solar panels aren't just more beautiful to look at, especially when installed on a black roof. They also provide you with some performance advantages. First of all, full black panels have a higher efficiency rating than standard blue solar panels. The monocrystalline cells are far more efficient than the polycrystalline cells that are used in blue panels. They produce higher power output for a solar panel of the same size. And they reflect less sunlight, which means they can absorb more.

Furthermore, they perform better at all times of the day, even when the sun is at a very low angle. So even on cloudy days, they have a higher efficiency rate than blue panels. This means that they are much more suited for long winters and darker, rainy days.

## Available now

ELAT Solar's top-of-the-line full black solar panels, which incorporate TOPCon technology for maximum efficiency and reliability, are now available for installers in the renewable energy industry. These panels are designed to withstand harsh weather conditions and provide consistent energy production for years to come, making them a top choice for businesses looking to switch to renewable energy sources. If you are interested in ELAT Solar panels, you can contact them via their website: [www.elatsolar.com](http://www.elatsolar.com).