




Building a better future
for your  business
and the planet.





At Solarwatt, we are the lifelong partner for people who want to generate their own  clean energy.

Over 30 years of expertise in clean energy

When we began manufacturing solar modules in 1993, we had one main goal: to enable our customers to decide for themselves where their energy comes from. And to do so with simple, long-lasting solutions.

Today, we can look back on over 30 years of experience in research, development and production. As an experienced pioneer in the photovoltaic industry, we can make a complete energy transition a reality for your business: clean electricity, clean heat and clean electric mobility.

Our comprehensive services and guarantees save you time and energy, whilst our carefully coordinated products reduce costs and emissions. We all benefit from this. After all, we all live under one roof.

Team  SOLARWATT®



More than **750,000** PV systems installed across Europe



More than **13 million** Individual solar panels sold



More than **1,000** Craft installer partners across Europe



Contact SOLARWATT UK & Ireland

powering a better tomorrow



SOLARWATT Panels on York Minster, England.



Panels that top every test. Even the test of time.

Modules are exposed to extreme conditions over decades: heat, cold, snow, wind, UV radiation and moisture. Our glass-glass modules are built to withstand these conditions – robust, reliable and tested for maximum service life. Even after more than 30 years, they still deliver 90% of their original output. For long-term value and consistent returns.




Good reasons to choose SOLARWATT Panel vision

- ✓ High power ratings of up to 470 Wp
- ✓ Excellent, robust, fair warranty terms
- ✓ Tested for large hailstones and harsh weather conditions
- ✓ Certified fire safety with fire resistance class A
- ✓ Sustainable: EPD verified for having a low carbon footprint in production
- ✓ Superior aesthetics thanks to an all-black design

Durability and quality for your commercial project.

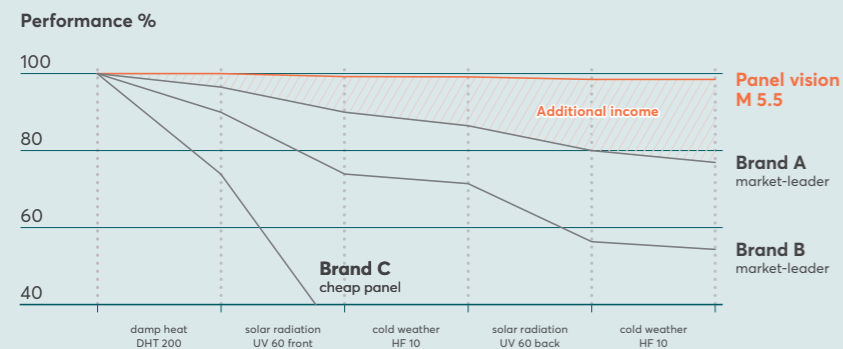
Our solar modules are made up of high-performance TOPCon cells, which are encased on both sides in heat-treated glass (2 mm thick on each side).

Combined with a 35 mm aluminium frame, this makes them particularly resistant to mechanical stresses such as hail, severe weather or snow. Water vapour and corrosive vapours such as salt spray or ammonia are also protected from being able to penetrate the modules.

30 years of performance, 30 years of savings.

SOLARWATT Panel vision modules undergo rigorous testing, far exceeding legal requirements. Only in this way can we not only ensure the outstanding durability, consistent performance and safety of our modules, but even guarantee this.

That is why we offer a 30-year product and performance warranty on our glass-glass modules, with a guaranteed minimum residual output of 90% after 30 years. Thanks to consistently high performance over 30 years, Solarwatt modules deliver significantly higher total yield than other modules on the market.



Our products put to the test on YouTube.

The right panel for the job.

Whether it's a traditional rooftop installation or an architectural challenge – we offer the right modules for your project. For standard roofs, we stock high-performance modules in standard sizes, in black, pure, or style colour options. Our panels can be combined with an in-roof mounting system to offer an aesthetic that makes the panels appear flush with your roof tiles (e.g. a Sunfixings system).

For larger roofs on commercial properties, we can offer higher power Panel vision L or even XL modules, which let you eek extra performance from a wider surface area.

For special applications such as carports or veranda roofing, our Panel vision style modules are a great choice. Thanks to transparent inter-cell spaces, they provide pleasant lighting conditions whilst offering protection from direct sunlight.

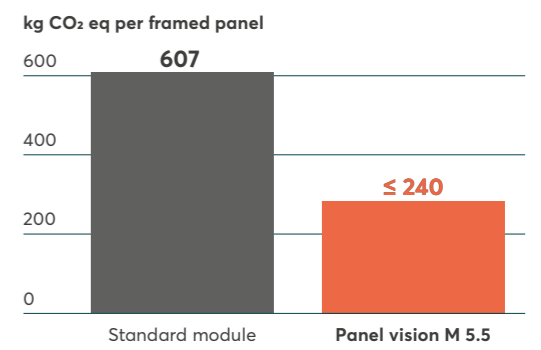


Sustainable and fair.

By championing environmentally friendly products and fair working conditions, we at Solarwatt are underlining our commitment to being pioneers in sustainable photovoltaics. In doing so, we go far beyond legal requirements by making a significant contribution to a sustainable energy supply.

Made in zero-carbon factories
Our modules are manufactured in zero-carbon factories. These are production facilities that produce no CO₂ emissions.

The circular economy
Recycling is close to our hearts. A high percentage of raw materials that go into our panels are made with high-quality recyclables.

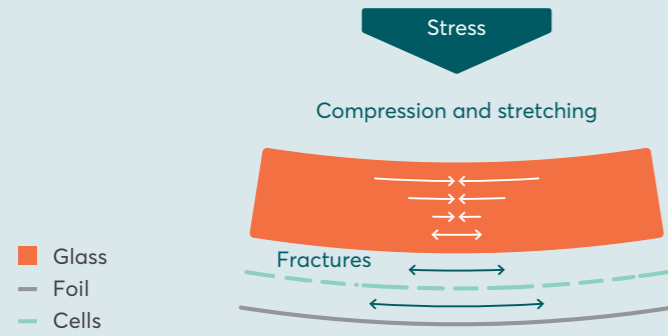


Fair working conditions

Fair wages | No forced labour | No child labour | Employee representation throughout our entire supply chain

Silicon **Silicon ingots** **Wafers** **Solar cells** **Solar panels**

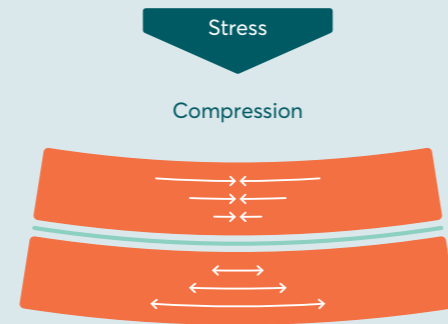
Regular inspections carried out by Solarwatt staff on site and by independent testing bodies.



- Glass
- Foil
- Cells

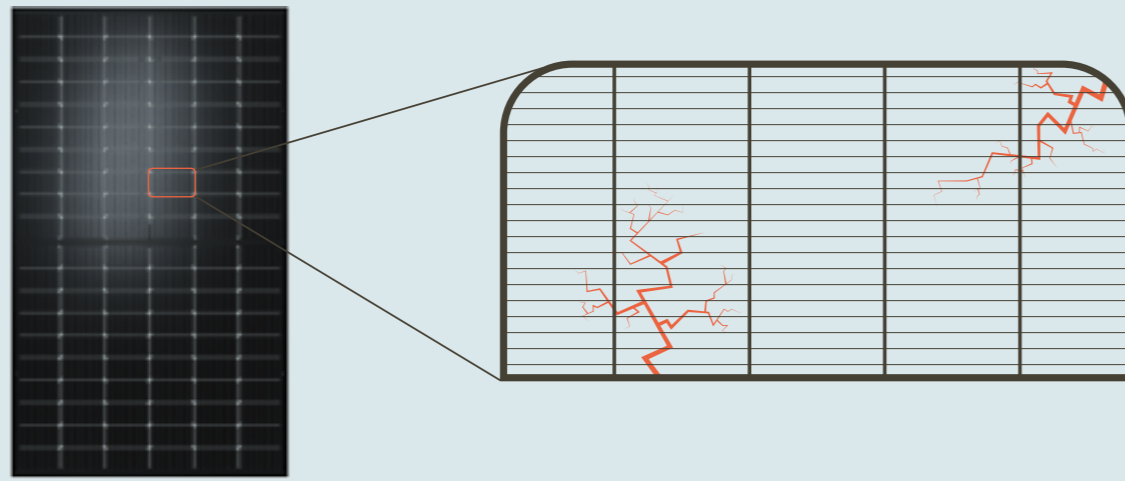
Glass-foil modules

When glass-foil modules are subjected to mechanical stress, such as wind or snow, cells can crack. These cracks permanently reduce the module's energy yield.



Glass-glass modules

In glass-glass modules, the sensitive cells are situated within the neutral fiber of the composite, where they are only bent and never stretched or compressed. This prevents any cracking of the cells.



Glass-glass modules provide optimum protection for the valuable solar cells

- ✓ Glass-protected from both sides
- ✓ No fractures, cracks or dead cell areas
- ✓ Minimum degradation of power for more than 30 years

Anti-reflective glass

Embedding material

Cross-connector cover

Highly efficient cells

Embedding material

Thermally tempered glass

Aluminum frame

Glass-glass: The generational modules.

Why Microcracks Matter

Microcracks are tiny hairline cracks in a solar cell that are invisible to the naked eye. Even though you cannot see them and adverse effects are unlikely to be produced immediately, microcracks are broken solar cells held in place by the solar module laminate.

After a time, the solar modules will be affected by various pressures such as bending and flexing, caused by external pressure and fluctuating temperatures. During the day, solar panels expand because of higher temperatures. Small imperfections in the silicon cell can lead to larger microcracks. The length of microcracks can vary; some span the whole cell, whereas others appear in only small sections.

Microcracks not only lead to significant loss of yield in a solar panel, the performance of panels without microcracks in the

same string is also likely to be affected, which consequently affects the lifetime of a solar PV system.

Solar cells are very fragile and unless they're properly protected, microcracks can develop quickly. The chance of microcracks occurring in a glass-glass panel is nil, provided it leaves the factory without them. A manufacturer can verify this with an electroluminescence (EL) test, similar to an X-ray.

Solarwatt's high quality standards ensure that any solar panel with microcracks is rejected.

With glass-foil panels, solar cells are much less protected. During transport, installation or, for example, a major hailstorm, microcracks can occur faster. Their effects, however, are not noticed until much later, due to reduced performance following continued deterioration. Microcracks are always outside guarantees provided by manufacturers.

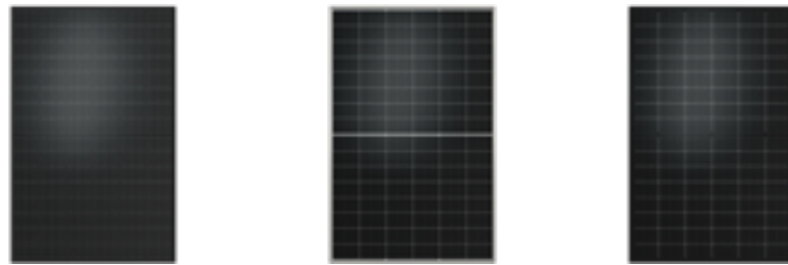
Pick your panel.

Get to know our modules and find exactly the right solution for your requirements.

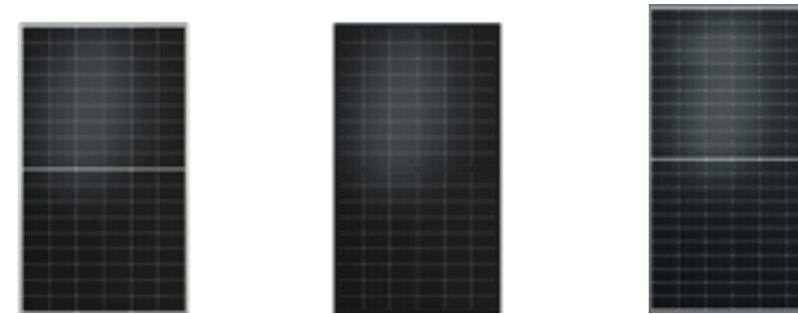
- ✓ Designed in Germany
- ✓ 30 year performance warranty
- ✓ Guaranteed 90% residual yield after year 30



Panel vision M



Panel vision L & XL



	Panel vision M		
	Panel vision M 5.5 black NEW	Panel vision M 5.5 pure NEW	Panel vision M 5.5 style NEW
Power	From 465 Wp	From 465 Wp	From 460 Wp
Technology	Glass-glass	Glass-glass	Glass-glass
Warranty	30 year performance 30 year product	30 year performance 30 year product	30 year performance 30 year product
Properties	White reverse laminate Low CO ₂ footprint High Recycling Rate Black frame Black between cells Class A fire rating	Bifacial Low CO ₂ footprint High Recycling Rate Silver frame White between cells Class A fire rating	Bifacial Low CO ₂ footprint High Recycling Rate Black frame Transparent between cells Class A fire rating
Cell Type	96 monocrystalline high power half-cut TOPCon solar cells	96 monocrystalline bifacial, high power half-cut TOPCon cells	96 monocrystalline bifacial, high power half-cut TOPCon cells
Dimensions (mm)	1,762 x 1,134 x 35	1,762 x 1,134 x 35	1,762 x 1,134 x 35
Weight (kg)	24.8	24.8	24.8

	Panel vision L		Panel vision XL
	Panel vision L 5.5 pure NEW	Panel vision L 5.5 style NEW	Panel vision XL 5.0 pure
Power	From 515 Wp	From 515 Wp	From 610 Wp
Technology	Glass-glass	Glass-glass	Glass-glass
Warranty	30 year performance 25 year product	30 year performance 25 year product	30 year performance 15 year product
Properties	Bifacial Low CO ₂ footprint High Recycling Rate Silver frame White between cells Class A fire rating	Bifacial Low CO ₂ footprint High Recycling Rate Black frame Transparent between cells Class A fire rating	Bifacial Low CO ₂ footprint High Recycling Rate Silver frame White between cells Class A fire rating
Cell Type	108 monocrystalline bifacial, high power half-cut TOPCon cells	108 monocrystalline bifacial, high power half-cut TOPCon cells	132 monocrystalline bifacial, high power half-cut TOPCon cells
Dimensions (mm)	1,977 x 1,134 x 35	1,977 x 1,134 x 35	2,382 x 1,134 x 30
Weight (kg)	27.6	27.6	33.4

Big. Safe. Efficient. Commercial storage from Solarwatt.

Commercial storage systems enable you to tap into attractive new projects, win over customers with transparent profitability calculations, and secure additional revenue potential.

Solarwatt provides everything you need for commercial storage projects: hardware, energy management software, and project planning support. This makes projects easy to implement and economically viable.



Good reasons to choose SOLARWATT Commercial Storage

- ✓ Hybrid storage systems from 100 to 200 kWh
- ✓ All-in-one storage system including inverter with up to 260 kWh
- ✓ Scalable, up to 4MWh storage (AELIO)
- ✓ Whole-site backup ATS support
- ✓ Multi-stage fire protection system
- ✓ 10-year performance guarantee on the battery cells

COMMERCIAL STORAGE



ESS AELIO



ESS TRENE

Usable capacity	100 or 200 kWh	215 kWh
Inverter	50 or 60 kW hybrid inverter on side	100 kW built-in inverter
Dimensions (WxHxD)	1,310 x 2,300 x 1,140 mm	1680 x 2420 x 1200 mm
Weight	1600 kg (100 kWh) / 2800 kg (200 kWh)	2800 kg
Type	Hybrid	AC-coupled
PV power	100 kWp (5 MPPTs) or 120 kWp (6 MPPTs)	n/a
Scalability	Up to 10 AELIO hybrid inverters with 2 battery cabinets connected to each (max. 20 cabinets)	Up to 10 TRENE cabinets
Max system size	4 MWh storage / 600 kW AC power	2.15 MWh storage / 1 MW AC
Backup	UPS port built in for supplying critical circuits. Whole-site backup is possible with a PCAB / NEXUS cabinet.	

COMMERCIAL INVERTERS



MEGA



FORTH



GRAND

Power classes	40/50/60 kW	80/100/110/120/125/136/150 kW	300/320/333/350 kW
Dimensions (WxHxD)	630 x 521 x 286 mm	985 x 660 x 327.5 mm	1225 x 825.5 x 369.1 mm
Weight	45.5 kg	87 kg	130 kg
Overdimensioning	150%	150-160%	150%
MPPTs	4 (40 kW) / 5 (50 kW) / 6 (60 kW)	9 (80-110 kW) / 12 (120-150 kW)	6
Strings per MPPT	2	2	5
MPPT voltage range	180 to 1000 V	180 to 1000 V	500 to 1500 V
Max. MPPT input current	32 A	32 A	75 A



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3 Salthouse Hotel, Northern Ireland

Your business deserves more than just energy.



Everything from a single source
from one supplier



Over 30 years' experience
in the market since 1993



Original German quality
and tangible German warranties



Local service & support
in the UK and across Europe



Sustainability built-in
across all our products and services