



SHARP Energy Solutions

Your Solar Partner for Life

Be ahead of your competition with advanced products.

Sharp.co.uk/energysolutions | [@SHARPSolarEMEA](https://twitter.com/SHARPSolarEMEA)

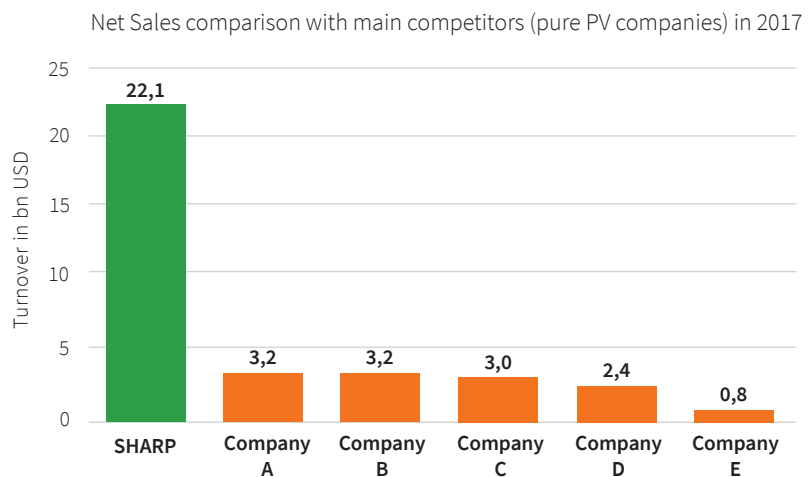
SHARP
Be Original.

Leverage the industry's longest-standing experience

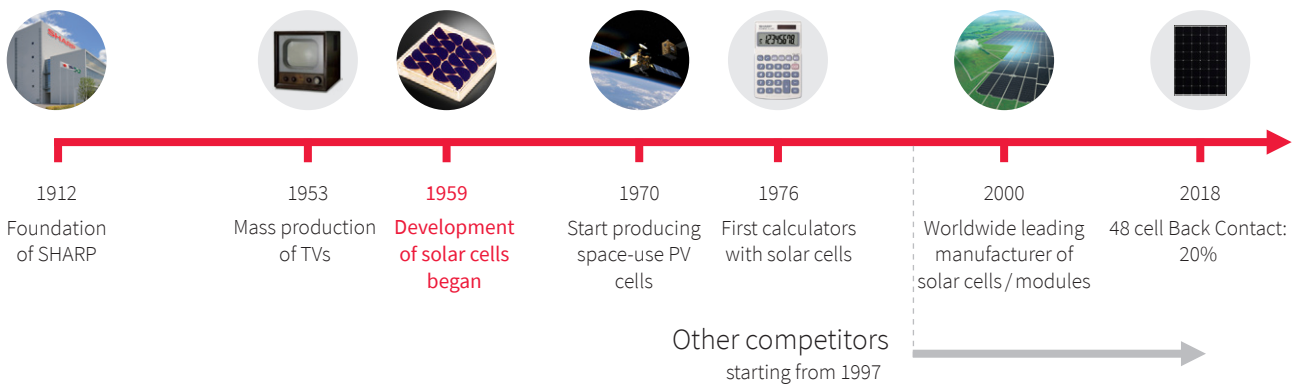
Long-term partnerships are built on trust, strength, and reliability. When our competitors started entering the market in the late 1990s, SHARP already had about 40 years of experience with a wide range of solar panel applications. We are proud of this long heritage and the many successful projects made possible by SHARP solar panels around the globe.

Secure your customers investment

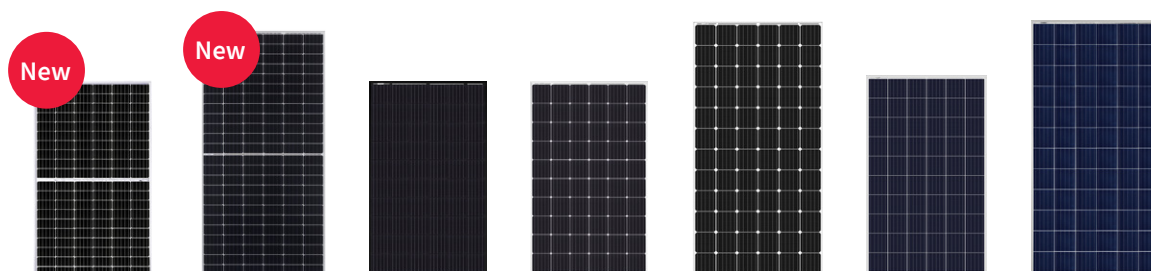
As part of a corporation whose diverse portfolio includes a broad range of consumer electronics, we rely on a stable financial backbone for our solar PV business, confirmed by Bloomberg's Tier 1 listing. In contrast to pure solar manufacturers, we can withstand the fluctuations of the highly volatile solar markets. For our partners and customers, this means that we will be around and by your side for a long time.



100+ years of company history and six decades of PV experience



Open up every market segment to generate new business



Type	Monocrystalline					Polycrystalline	
Power output	330 W	385 W 395 W	300 W	310 W	370 W	275 W	330 W
Model	NU-JC330	NU-BA385 NU-JB395	NU-AC300B	NU-AC310	NU-AF370 NU-AH370	ND-AC275	ND-AF330C
Cell	Half-cell	Half-cell	PERC	PERC	PERC	Standard	Standard
Number of cells	120	144	60	60	72	60	72
Module efficiency	19.5%	19.3% 19.6%	18.3%	18.9%	19.1%	16.8%	17.0%
System voltage	1,000V	1,500V	1,000V	1,000V	1,000V	1,000V	1,500V
Size	1,684×1,002×40 mm	2,010×992×40 mm (157x 78.5 mm cells) 2,008×1002×40 mm (159x 79.5 mm cells)	1,650×992×35 mm	1,650×992×35 mm	1,960×992×40 mm 1,956×992×35 mm	1,650×992×35 mm	1,960×992×40 mm
Weight	19.5 kg	23.0 kg 23.5 kg	18.5 kg	18.5 kg	22.5 kg 22.2 kg	18.5 kg	22.5 kg
Pallet / Truck	26 / 780 pcs	27 / 594 pcs 26 / 676 pcs	30 / 900 pcs	30 / 900 pcs	27 / 648 pcs 30 / 720 pcs	30 / 900 pcs	26 / 624 pcs



Go Online!

Select a module and see the datasheets and certificates
www.sharp.co.uk/solar-panels

Achieve ROIs quickly

Highest-yielding half-cell PV panels

The main benefits of the half-cell modules for users are a 2-3% higher module performance and higher total yields. In a half-cell module, standard full cells are cut into two equal halves. In addition, the module is also divided into an upper and a lower half and the half-cells arranged thereon.

By dividing the cells, the power generated per cell is halved and resistance losses on cell and module level are reduced to one quarter. In addition, the halved current can significantly reduce the temperature in the cells and therefore reduce the risk of hot spot effects. The three small junction boxes, each fitted with only one bypass diode, are transferring less heat to the cells below as well. These factors also boost the longevity of the overall system and dividing the module in half will also have an impact on the overall performance. The path of the generated current is shortened by dividing the module, further reducing resistance losses. Mounting the module vertically will also prove beneficial in shading situations. For example, if the lower half of the module is shaded, users can still generate a 50% performance with the upper half, while the production of a full cell module completely breaks away. This could be the case with inter-row shading for free-field or tilt-mounted roof installations. With half-cell modules, therefore, higher wattage classes and higher yields per system can be achieved.

5% is more than 5W

SHARP is the only company with up to 5% more power than specified on the datasheet. The power tolerance of other companies is 0/5 W.

Higher efficiency with PERC cells

Our monocrystalline PV modules are available with PERC cells. These “passivated emitter rear contact” cells are a new technology that increases module efficiency at competitive prices.

» *“Our relationship with SHARP Service can be described best by the number of issues we have had with SHARP products in the past 18 years: ZERO! This is statistically impossible and yet, true!”* «

Christos Pronios
Eurosol



Subscribe to our newsletter
for business customers



Go Online!

www.sharp.eu/solar-newsletter

Best guarantees

Start the guarantee period with the handover to the end customer

SHARP offers a 10-year product guarantee and 25-year linear power output guarantee to the end user – starting at the point when the product actually arrives at the end user. All customer guarantees are managed from our offices in Hamburg, Germany.

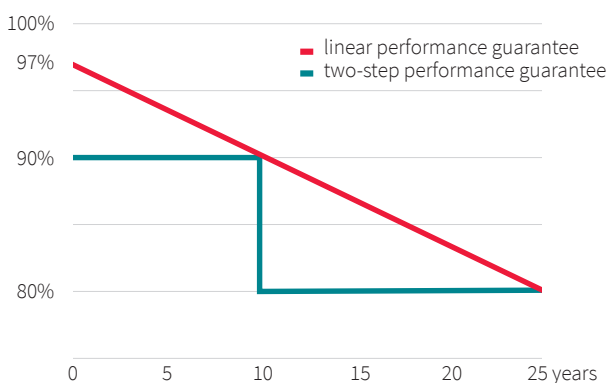
**10
YEARS**

Product Guarantee

**25
YEARS**

Linear Power Output Guarantee

The linear power output guarantee from SHARP secures additional module performance



Sleek black designs

Satisfy your style conscious customers

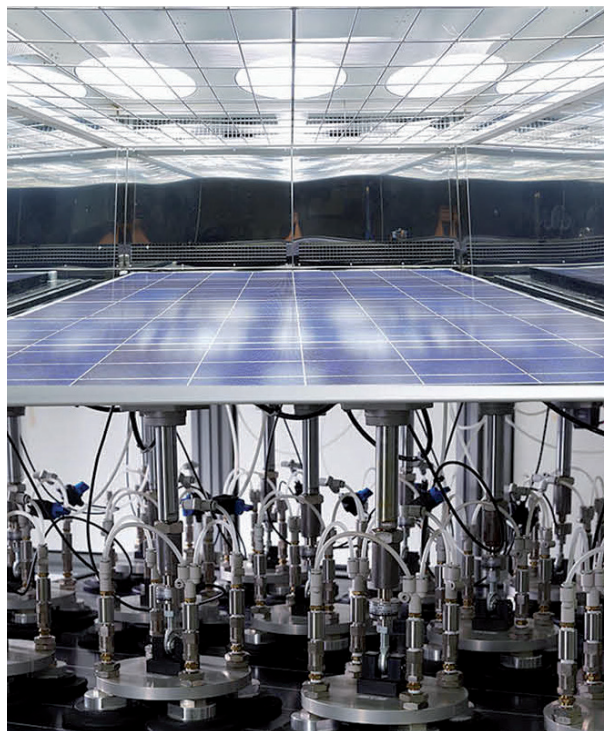
With their black frames and black back sheets, our all-black monocrystalline panels offer a homogeneous and sleek design that highlights a project's architecture.

Proven quality

Provide reliable products which passed the hardest tests

Our extensive, discerning tests are based on decades of industry experience and are up to five times stricter than IEC standards demand. We know the typical module failures and can test new production materials accordingly to ensure our modules' top quality. From compliance with international standards to endurance under extreme conditions: our PV modules have been tested, certified* and awarded by a number of independent institutions.

*Please check the current specific data sheet and related documents for available certificates for each product.



NU-RD, NU-RC
& NQ-R Series



PID
free



ND-RB, ND-AK, ND-AH &
NU-SC Series



5,400 Pa
Tested Snow Load
(IEC 612015)



Ammonia Test
(DLG focus test)

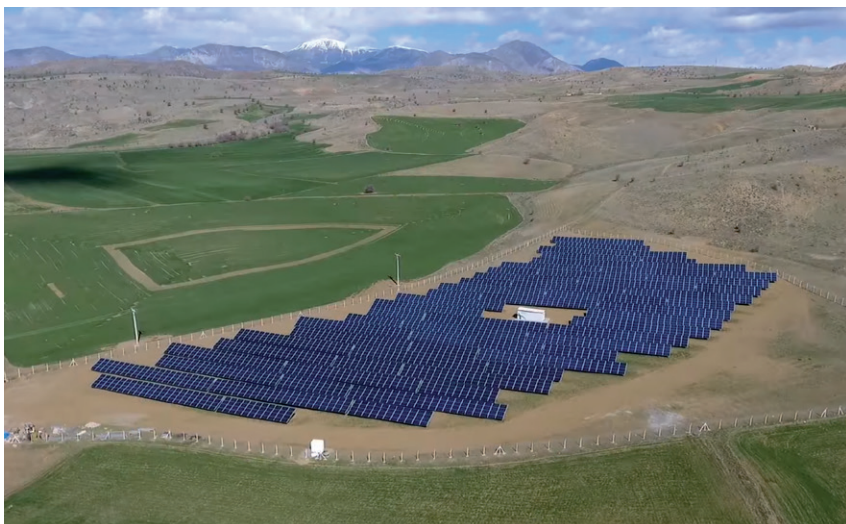


Salt Mist Test
(IEC61701)



Trust in over 50 million SHARP panels installed in every environment

SHARP PV products are being used around the world, in a wide range of applications and environments. From the mountains to the desert, from icy climates to extreme humidity and heat, our PV modules have proven robust and reliable, contributing to a better energy future everywhere.



Large scale projects



Nordic installations (heavy snow loads and up to -15°C)



Single- and multi-family homes

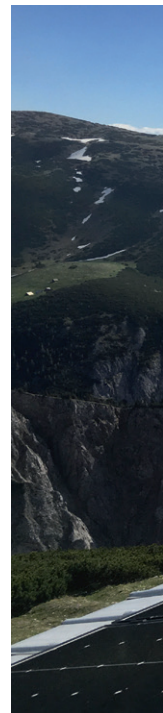


Solar powered irrigation projects



Go Online!

See the complete case studies.
www.sharp.co.uk/solar-projects





Desert installations (up to 50° C)



Salty costal climate conditions



Floating PV installations



Industrial installations



Mountain installations
(strong wind pressure)

Follow us!

@SHARPSolarEMEA



Contact us and we will be happy to assist



Superior service based in Europe

Our service, sales, and support teams are based in Hamburg, Germany. We like to be close to our customers and partners and have our stock close, too. That is why we operate from offices in Europe and have a warehouse here.



Go Online!

Get in touch with us now and meet the team.

www.sharp.co.uk/solar-team

See what our clients have to say:

"We chose SHARP for the sake of product quality, performance and guarantee. Its performance in our demanding and harsh weather conditions in Finland guarantees the best possible energy production compared to any other product we have used so far."

Antti Kostainen
PlayGreen, Finland

"SHARP modules have proved highly dependable in the past, with a very good price-performance ratio. Over the almost seven years of our partnership with SHARP, they have been consistently reliable and supportive. It is clearly a win-win situation."

Sándor Harcsa-Pintér
3comm, Hungary

» *"We've done more than 70 projects with SHARP modules so far. Their high quality and reliable guarantees give us great peace of mind."* «

Joan Grifé Singla
Seine Tech, Spain

"We have been a satisfied customer of SHARP for three years now. Especially the support, the accessibility without telephone loop, the reliability as well as the good cooperation have always convinced us."

Josef Wilken
W.N. Solarsysteme, Germany

"All panels were delivered on time, which helped adhering our time schedule a lot and is required when installing 43,000 modules. Furthermore, the SHARP modules have exceeded our expectations in terms of quality and reliability. This was also confirmed by the great yields we generated so far."

Aldo Enerji
Akin Yalçın, Turkey

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