



SHARP Energy Solutions

Your Solar Partner for Life

<https://www.sharp.net.au/>

SHARP

Be Original.

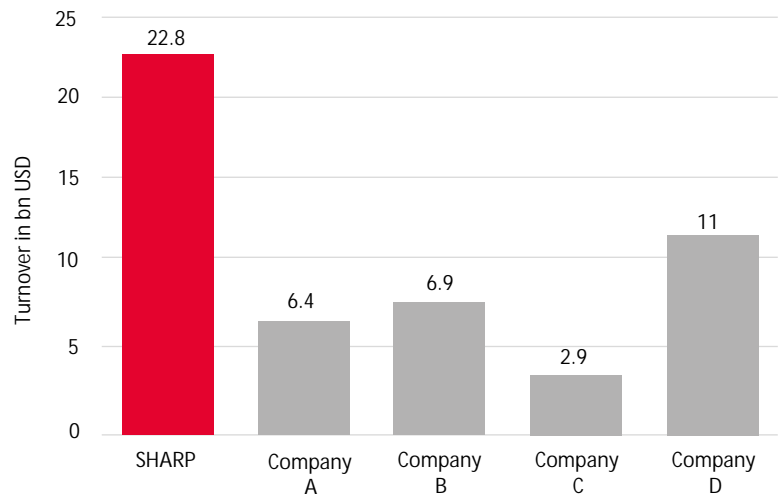
Trustable consumer brand with more than 60 years of solar experience

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.

Net Sales comparison with main competitors (pure PV companies) in 2021



60 YEARS **1 TIER**

Solar Expertise Bloomberg

Benefit from a well known consumer brand

111 years of company history and six decades of PV experience



1912
Foundation of SHARP

1953
Mass prod of TVs

1959
Dev of solar cells begins

1970
Start producing space-use PV cells

1976
First calculators with solar cells

2000
World leading PV manufacturer

2018
48 cell: Back-Contact: 20%

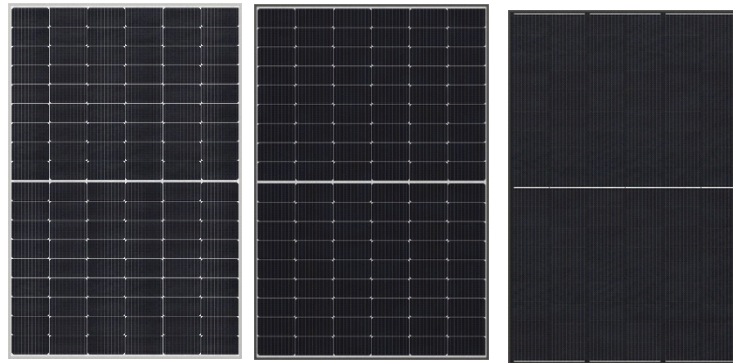
2020
Half-cut cell introduction

2022
Bifacial modules introduction

PV competitors

Our product line up with the proven technology

Half-cut cell PERC mono line-up



High Performer
(Silver frame)

High performer
(Black frame)

Design Solution

Power	415W	415W	410W
Model	NU-JC415	NU-JC415B	NU-JC410B
Half-cells	108	108	108
Busbars (round ribbons)	10BB	10BB	10BB
Wafer type	M10	M10	M10
Module efficiency	21.25%	21.25%	21.0%
System voltage	1,000V	1,000V	1,000V
Size	1,722 x 1,134 x 30mm	1,722 x 1,134 x 30mm	1,722 x 1,134 x 30mm
Weight	20.7kg	20.7kg	20.7kg
Pallet	36pcs	36pcs	36pcs
Truck (40 feet)	936pcs	936pcs	936pcs



Go Online!

Select a module and see the data sheet, warranty certificates and installation manual.

<https://www.sharp.net.au/green-energy>

Guarantees based on 60 years of experience

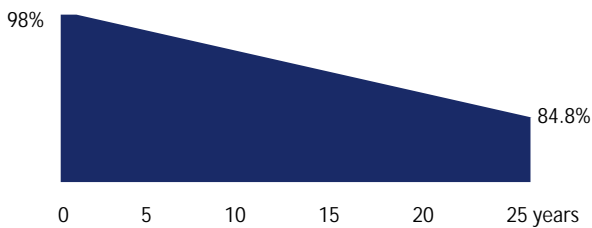
SHARP offers a product guarantee and linear power output guarantee. These guarantees to the end user start at the date of installation or ninety days after the Bill of Lading date of the shipment of the modules, whichever date is earlier.

25 YEARS

25 year product guarantee*
SHARP offers a 25 year product guarantee.

25 YEARS

25 year linear power output guarantee
Guaranteed minimum power output of 98% in the first year and minimum of 84.8% in year 25. 0.55% maximum annual degradation after the first year.



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.



Sleek black designs

Satisfy your style conscious customers
Our monocrystalline panels with black frames offer a homogeneous and sleek design that blends in with a building's architecture.

PID				
PID free (IEC TS62804)	5,400 Pa Tested Snow Load (IEC 61215)	Ammonia Test (IEC62716)	Salt Mist Test (IEC61701) Severity 6	Sand / Dust Test (IEC60068)

*Applicable for modules installed in Australia for residential use. Please check the guarantee conditions for the details.

More than 17GW of 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.



Desert installations (up to 50° C)



Residential installation



Large scale solar power plant



Mountain installations
(strong wind pressure)



Industrial installations



Seafront installations

* Installation photos this page are from Sharp Electronics GmbH, except photo of large scale solar power plant.


Large scale solar power plant is 40MWdc project in Hue, Vietnam which was the first large scale solar power plant in Vietnam.


Sharp PV module at a glance


Powerful product features

+0% Guaranteed positive power tolerance (0/+5 %)

MBB MBB busbar technology
Improved reliability
Higher efficiency
Reduced series resistance

 Tested and certified
IEC61215, IEC61730
Fire rating class C

 High module efficiency
PERC monocrystalline silicon photovoltaic modules

 Half-cut cell
Improved shading performance
Lower internal losses

Your solar partner for life

60
YEARS 60 years of solar expertise

25
YEARS Linear power output guarantee

25*
YEARS Product guarantee

50
MIL 50 million PV modules installed

1
TIER Tier 1 - BloombergNEF

* Applicable for modules installed in Australia for residential use. Please check the guarantee conditions for the details.