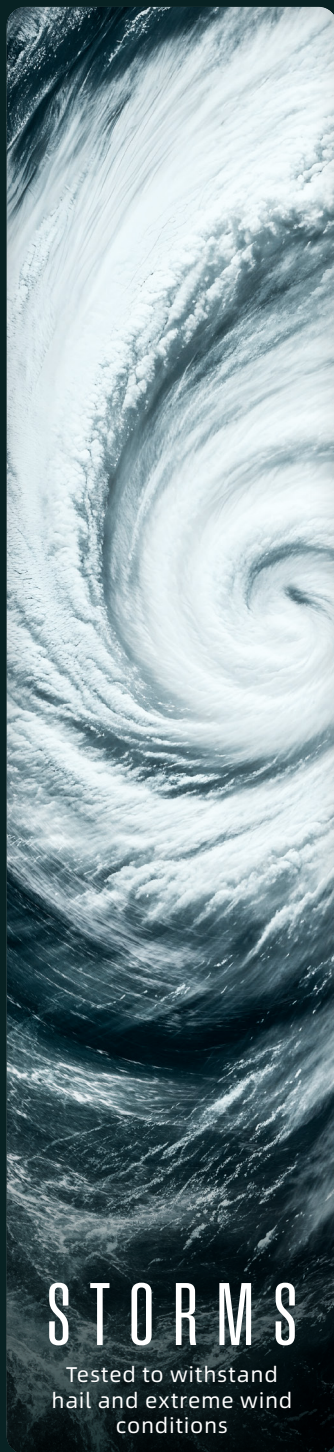


PHONO

QUASAR 475W N-BC

Uncompromising Power



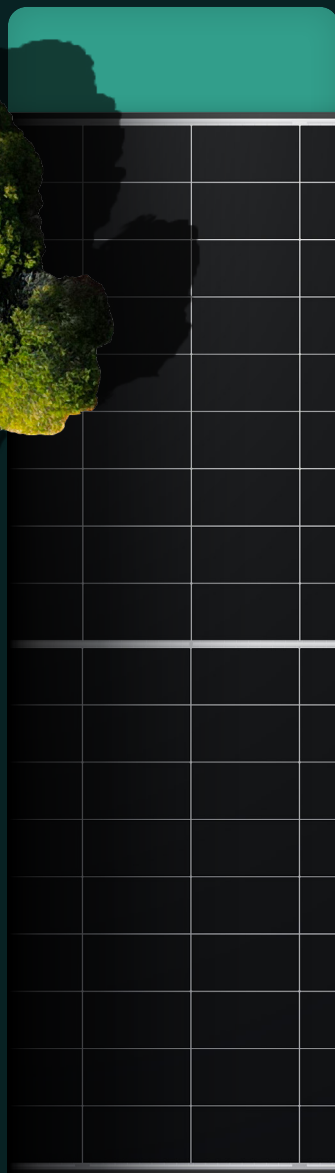
STORMS

Tested to withstand
hail and extreme wind
conditions



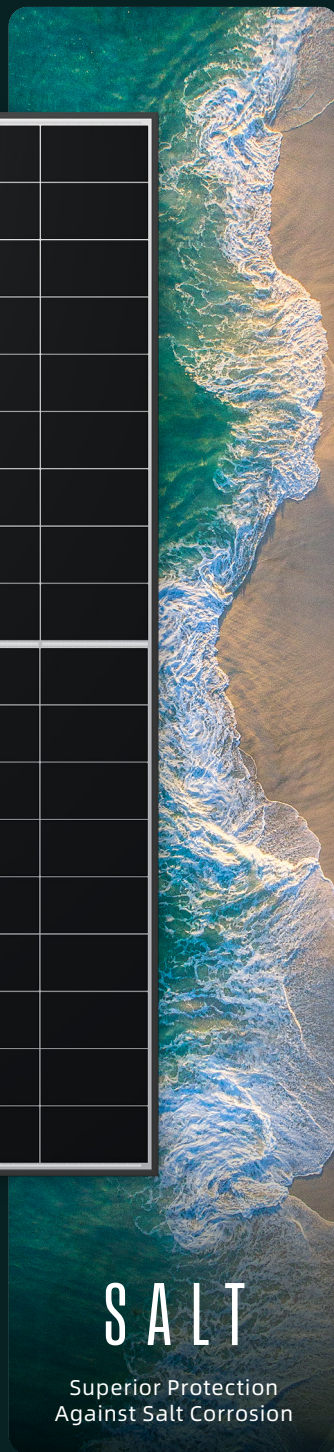
SUN

Maintains higher power
output in extreme heat



SHADE

Enhanced Performance
in Partial Shade



SALT

Superior Protection
Against Salt Corrosion

30 Year Product and 30 Year Performance Warranty*

Dual Glass - Back Contact

15 YEARS | Installing
in Australia

phonosolar.com.au

Imagery for Illustrative Purposes Only



Uncompromising Power

Summer heat. Salt air. Shady patches. Over time, these conditions can quietly reduce solar performance.

PHONO Quasar 475W is built so you don't have to worry about what's happening outside. From intense Australian heat and UV exposure to coastal air and seasonal shading, its engineering works in the background, delivering reliable energy while you enjoy your home. Designed for those who prefer to invest once, without compromise.

Built with robust dual glass construction and advanced cell technology, Quasar is made to perform consistently over time. Backed by class-leading 30 year product and 30 year performance warranties, it offers confidence that your system is built strong, supported for the long term, and designed to last.



Dual glass construction

Toughened glass on both sides ensures long-term durability in Australian conditions.



Hail impact tested

Independently tested to handle extreme weather with confidence.



Cyclone tested

Proven performance under high wind loads common in coastal and northern regions.



High heat performance

Maintains stable power output during extreme heat.



Partial shading optimised

Helps to maximise energy production when parts of the panel are temporarily shaded.



Salt mist resistance

Built for long-term reliability in coastal environments.



Back contact architecture

Optimised layout supports consistent energy output over time.



30 year product and 30 year performance warranty

Long-term confidence backed by global manufacturing strength and Australian support.



Make a Secure Investment with Four Layers of Protection

A long term warranty only matters if the people behind it are there when you need them. With Phono Quasar 475W, your system is supported by four layers of global strength and local expertise that protect your investment from storms, sun, shade and salt for decades.

1



Global strength for long term confidence

- Established in 1978 with deep capability in advanced manufacturing
- Part of Sinomach, a Fortune Global 500 group with global scale
- Engineering expertise across consumer tools, automotive components and commercial vessels
- Produce power tools for Australian Hardware Stores and car parts for Mercedes, BMW and more.

What this means for you

A financially strong global manufacturer stands behind your long term warranty.

2



Proven performance in Australia

- Pioneer of dual glass and HJT hybrid cell technology
- Bloomberg Tier 1 manufacturer trusted by utility-scale investors
- Supplying solar panels in Australia since 2010
- Local warranty support and representation

What this means for you

Panels engineered for Australian conditions, backed by a brand with more than a 15 years of proven performance here.

3



Local experts on the front line of support

- Australian owned technical distributor
- More than 12 years supporting Phono Solar nationally
- Recognised as an EUPD Top PV Supplier in Australia for seven consecutive years

What this means for you

Fast, knowledgeable support from an Australian team that understands Phono technology and local standards.

4

Your Installer

Precision installation that protects your system

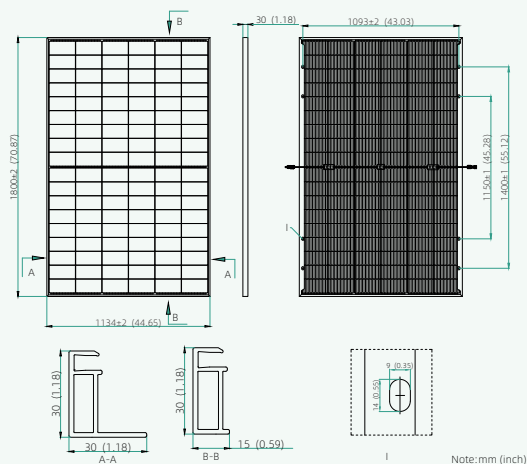
- Experienced, accredited installers selected for premium quality
- Installation guidelines tailored to Phono modules and Australian Standards
- SAA accredited installers and designers

What this means for you

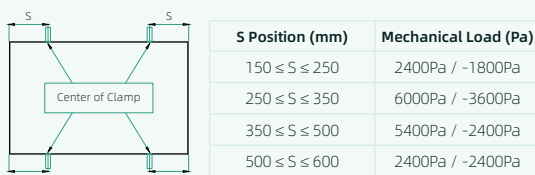
Your system is installed with care and precision, helping maintain performance and protect your long term warranty.

Everything above exists to protect you and your investment.

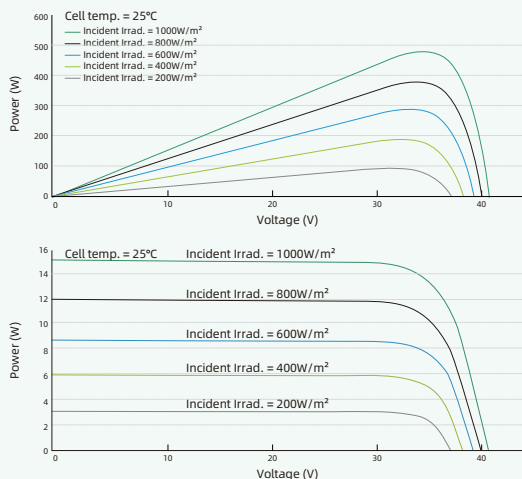
Panel Dimensions



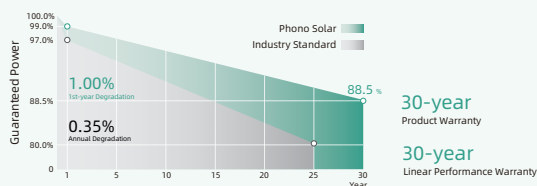
Clamping Zones



Electrical Characteristics



Linear Performance Warranty



30-year linear performance warranty to 88.5% at year 30. This amounts to 1% degradation in the first year, 0.35% annually. | *30 year Product Warranty applies to Residential System Installations. Commercial System Installations are eligible for 25 year Product Warranty. Please see our warranty document for full terms, conditions and details.

PHONO SOLAR TECHNOLOGY CO., LTD. reserves the right to make necessary adjustments to the information described herein at any time without further notice. The specifications and certificates contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Please be sure to use the most recent version of data.

Manufactured In China
Engineered for Australia



Electrical Typical Values

Model	PS475L7GFH-18/VBH	
Testing Condition	STC	NOCT
Rated Power (Pmpp)	475	361
Rated Current (Impp)	14.31	11.47
Rated Voltage (Vmpp)	33.20	31.47
Short Circuit Current (Isc)	15.01	12.06
Open Circuit Voltage (Voc)	40.11	37.93
Module Efficiency (%)	23.27	

STC(Standard Testing Conditions): Irradiance 1000W/m², AM 1.5, Cell Temperature 25°C. NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s. Made in China. Measurement Tolerance at STC: Pmax±3%, Voc±5% and Isc±5%.

BNPI

Maximum Power (Pmax)	520
Optimum Operating Current (Impp)	15.67
Optimum Operating Voltage (Vmpp)	33.2
Short Circuit Current (Isc)	16.44
Open Circuit Voltage (Voc)	40.11

BNPI:Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM 1.5, ambient temperature 2°C, ϕPmax: 70%±5%; ϕVoc:98%±5%; ϕIsc:70%±5%. Measurement Tolerance: Pmax±3%, Voc±5% and Isc±5%

Mechanical Characteristics

Cell Type	N Type BC
Dimensions	Length: 1800mm Width: 1134mm Height: 30mm
Weight	23.5kg
Front Glass	2.0mm Heat Strengthened Glass
Back Glass	1.6mm Heat Strengthened Glass
Frame	Anodised Aluminium Alloy
Cable (Including Connector)	1200mm
Junction Box	IP 68 Rated
Connectors	Staubli EVQ2

Temperature Ratings

Voltage Temperature Coefficient	-0.20%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.26%/°C
Power Tolerance	0~+5W
NOCT	45±2°C
PV Module 98th percentile operating temperature	70°C

Absolute Maximum Rating

Operating Temperature	From -40 to +85°C
Salt Mist Certification	Level 6
Hail Diameter @ 97.9km/h	Up to 35mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	30A
PV Module Classification	II
Fire Rating (IEC61730)	C
Maximum System Voltage	DC 1500V

Packing Configuration



1820 mm



1120 mm



1245 mm



36 Modules



900kg



24 Pallets