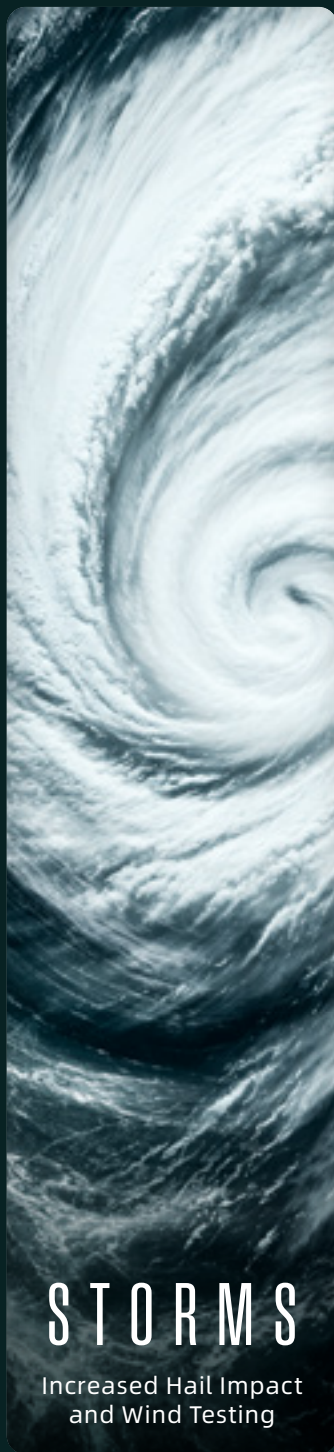


PHONO

# QUASAR 475W N-BC

Uncompromising Power



## STORMS

Increased Hail Impact  
and Wind Testing



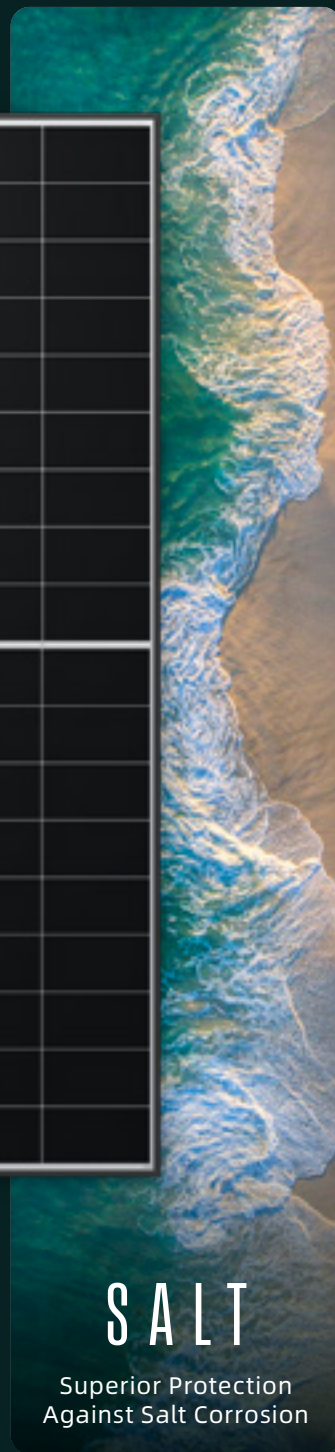
## SUN

Leading Temperature  
Coefficient



## SHADE

Enhanced Performance  
in Partial Shade



## SALT

Superior Protection  
Against Salt Corrosion

30 Year Product and 30 Year Performance Warranty\*

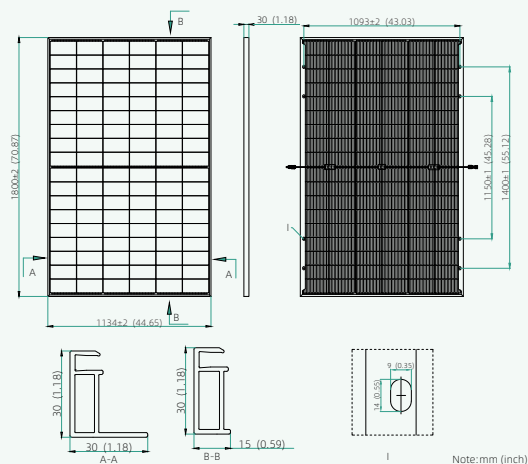
Dual Glass - Back Contact

15 YEARS | Installing  
in Australia

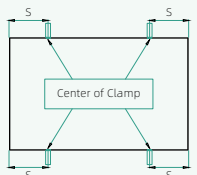
[phonosolar.com.au](https://phonosolar.com.au)

Imagery for Illustrative Purposes Only

## Panel Dimensions

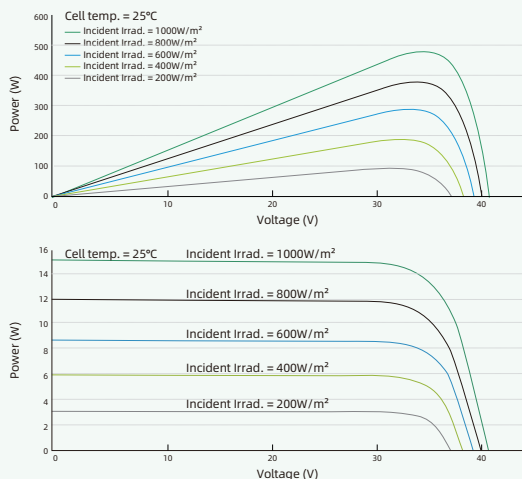


## Clamping Zones

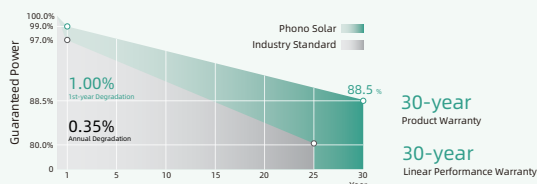


S Position (mm)	Mechanical Load (Pa)
150 ≤ S ≤ 250	2400Pa / -1800Pa
250 ≤ S ≤ 350	6000Pa / -3600Pa
350 ≤ S ≤ 500	5400Pa / -2400Pa
500 ≤ S ≤ 600	2400Pa / -2400Pa

## 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 (P <sub>mpp</sub> )	475	361
Rated Current (I <sub>mpp</sub> )	14.31	11.47
Rated Voltage (V <sub>mpp</sub> )	33.20	31.47
Short Circuit Current (I <sub>sc</sub> )	15.01	12.06
Open Circuit Voltage (V <sub>oc</sub> )	40.11	37.93
Module Efficiency (%)	23.27	

STC(Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, AM 1.5, Cell Temperature 25°C. NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s. Made in China. Measurement Tolerance at STC: P<sub>mpp</sub>±3%, V<sub>oc</sub>±5% and I<sub>sc</sub>±5%.

## BNPI

Maximum Power (P <sub>max</sub> )	520
Optimum Operating Current (I <sub>mpp</sub> )	15.67
Optimum Operating Voltage (V <sub>mpp</sub> )	33.2
Short Circuit Current (I <sub>sc</sub> )	16.44
Open Circuit Voltage (V <sub>oc</sub> )	40.11

BNPI:Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM 1.5, ambient temperature 25°C, ϕP<sub>max</sub>: 70%±5%; ϕV<sub>oc</sub>:98%±5%; ϕI<sub>sc</sub>:70%±5%. Measurement Tolerance: P<sub>mpp</sub>±3%, V<sub>oc</sub>±5% and I<sub>sc</sub>±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 EV02

## 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
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

