

**SUMEC**

**Phono<sup>®</sup> Solar**

AUSTRALIA

PHOTOVOLTAIC  
MODULES

The  
Engineers  
Choice

**15** DIAMOND  
YEAR DEALER  
PRODUCT WARRANTY

**BLUE  
CHIP**  
Solar Panel

EUPD RESEARCH

TOP PV BRAND

MODULES

AUSTRALIA

2018

**SUMEC**

**Phono<sup>®</sup> Solar**  
AUSTRALIA

40

YEARS OF  
EXPERIENCE



Sumec Group, the fifth fastest growing company in the world (Forbes 2018) and part of Fortune Global 500 Sinomach Group, are rebranding our renewable energy business Phono Solar to Sumec Phono Solar Australia.

Highlighting Sumec as the parent company brings into sharp focus the difference between Sumec Phono Solar and our competitors, in 2011 there were 400 solar panel manufacturers approved for install in Australia, today there is fewer than 70.

Sumec Phono Solar know that by the time a solar panel 25 year warranty is complete we will still be in business and honoring Australian warranty. This is to show our commitment to the Australian market.

# THE SUMEC PHONO SOLAR STORY

## 1978

SUMEC starts business as China Machinery and Equipment Export Company



## 1992

SUMEC trademark registered in China.

## 2004

SUMEC becomes secondary company of SINOMACH Global Fortune 500 enterprise



## 2006

SUMEC start Renewable Energy business unit, Phono Solar



## 2014

Phono Solar become the FIRST Chinese brand listed in Bloomberg Tier 1

## 2008

Phono Solar commence production with 150MW at Nanjing production line.



## 2016

Phono Solar achieve Top Performer status in DNV-GL Independent Longevity Testing. Independent Australian commentators note Phono Solar best panel for Australians to install.



## 2018

Sumec are Forbes 5th fastest growing business in the world, Sinomach continue to maintain Global Fortune 500 status and Sumec Phono Solar rebrand in Australian market to provide greater strength whilst increasing production capacity in China to 2GW



## 2019+

Sumec Phono Solar will be excited to continue our cooperation in the Australian market with our valued customers and look forward to servicing you with high quality product.



# THIRD PARTY Validated Testing



DAMP  
HEAT



DYNAMIC  
MECHANICAL LOAD



THERMAL  
CYCLING



POTENTIAL INDUCED  
DEGRADATION  
(PID) -1kV



HUMIDITY  
-FREEZE



● IEC standard

● Independent third party longevity testing

## DNV.GL PV MODULE RELIABILITY SCORECARD REPORT 2016

**SUMEC PHONO SOLAR EXCEEDS THE STANDARD!**

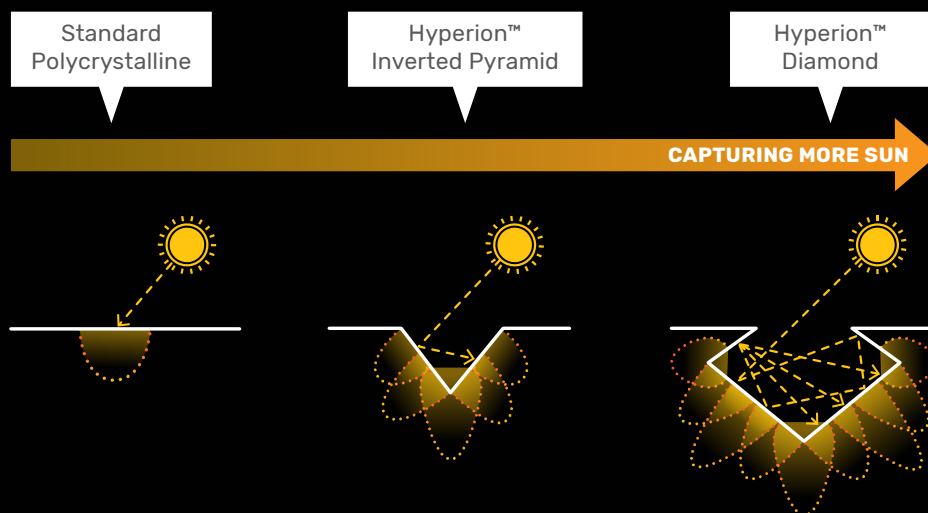
Manufacturer	Damp Heat (humid locations)	Dynamic Load (windy locations)	Thermal Cycling (desert locations / Large temp difference between day & night)	PID (Potential induced degradation Commercial)	Humidity -Freeze (snowy locations)
Kyocera	Great	Great	Great	Great	Great
<b>Phono Solar</b>	<b>Good</b>	<b>Good</b>	<b>Great</b>	<b>Great</b>	<b>Good</b>
RECOM	Good	Great	Good	Great	unclear
Tenksolar	Good	Great	Good	unclear	Great
JA Solar	unclear	Good	Good	Great	unclear
CSUN	Good	unclear	unclear	Great	unclear
Hanwha	unclear	Good	unclear	Great	unclear
Jinko	Good	unclear	unclear	Good	Good
Q-Cells	unclear	Good	unclear	Good	Good
REC	Good	unclear	unclear	Great	unclear
Trina	Good	Good	Good	unclear	unclear
Yingli	unclear	Good	unclear	Good	unclear
ZNShine	unclear	unclear	unclear	Good	unclear

# CHANGING THE DNA of Solar Cells

SUMEC PHONO SOLAR HAS CHANGED THE DNA OF  
SOLAR CELLS WITH THE HYPERION™ DIAMOND NANO  
STRUCTURE REBUILDING {NSR} TECHNOLOGY

## 4 C'S OF HYPERION DIAMOND TECHNOLOGY

1. **CELL** - Hyperion™ Nano Structure Rebuilding (NSR) Technology
2. **CUT** - Latest diamond cell cutting technology
3. **COLOUR** - Consistent dark blue cell colouration
4. **CONSISTENCY** - Hyperion™ manufactured in Phono Solar's own 2.5GW cell facility



SCAN TO  
WATCH VIDEO

Download QR Reader on your mobile device

# Awards & Recognition



In 2018 Australian solar installers voted Sumec Phono Solar a top PV Module brand in Australia.

## FORTUNE 500

In 2018 Sumec Phono Solar parent company Sinomach is recognised as being one of the 500 largest companies in the world.

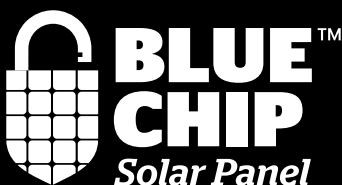
## No. 5 Forbes

GLOBAL 2000:  
GROWTH CHAMPIONS

In 2018 Sumec was recognised as being the fifth fastest growing company in the world.



In 2018 Sumec Phono Solar has featured in Bloomberg Tier 1 list of panel manufacturers.



Sumec Phono Solar is a Blue Chip Solar Panel manufacturer. Blue Chip is a low risk company. They have been business for over 30 years, have 30+ billion in turn over annually, have a diverse range of products and are capable of servicing warranties locally.



SCAN CODE TO WATCH VIDEO



In 2018 Sumec Phono Solar was again awarded Top Performer status. In 2016 Phono Solar and Kyocera were the best panels for Australians to buy according to independent reviews of DNV GL testing.

INTRODUCING

# Twin Plus Module Technology!

**15** DIAMOND  
YEAR DEALER  
PRODUCT WARRANTY

## More Power

Low power loss in cell connection

Low temperature coefficient (Pmax):  $-0.38\% / ^\circ\text{C}$

Low NOCT:  $43 \pm 2^\circ\text{C}$

## More Reliable

Lower internal current and temperature

## PID Resistant

## Better Shading Tolerance

Optimal Yields - Better shading tolerance combined with excellent low-light and temperature behaviour



BLOOMBERG  
TIER 1 BRAND



OWNED BY  
**FORTUNE 500**  
GLOBAL COMPANY



**TOP  
PERFORMING  
PANEL**



**AUSTRALIAN  
OFFICE AND  
REPRESENTATION**

AUSTRALIAN ENGINEERING, DESIGN  
AND MANUFACTURER SUPPORT

# The Engineers Choice



**SUMEC**  
**Phono<sup>®</sup> Solar**  
AUSTRALIA

**15** DIAMOND  
YEAR DEALER  
PRODUCT WARRANTY



**SUMEC PHONO SOLAR AUSTRALIA**  
Level 35, Tower One, 100 Barangaroo Ave,  
Sydney, AUSTRALIA

Tel: 02 8114 4516

[www.phonosolar.com.au](http://www.phonosolar.com.au)

**PHONO SOLAR INTERNATIONAL (SUMEC)**  
No. 1 Xinghuo Rd., Nanjing Hi-tech Zone,  
Nanjing, CHINA

[www.phonosolar.com](http://www.phonosolar.com)