

SUMEC

Phono[®] Solar
AUSTRALIA



The Engineers Choice

PHOTOVOLTAIC
MODULES

SUMEC

Phono[®] Solar
AUSTRALIA

40

YEARS OF
EXPERIENCE

EUPD RESEARCH

TOP PV MODULE

SUPPLIER

AUSTRALIA

2018



Sumec Group, the fifth fastest growing company in the world (Forbes 2018) and part of Fortune 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 less than 100.

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



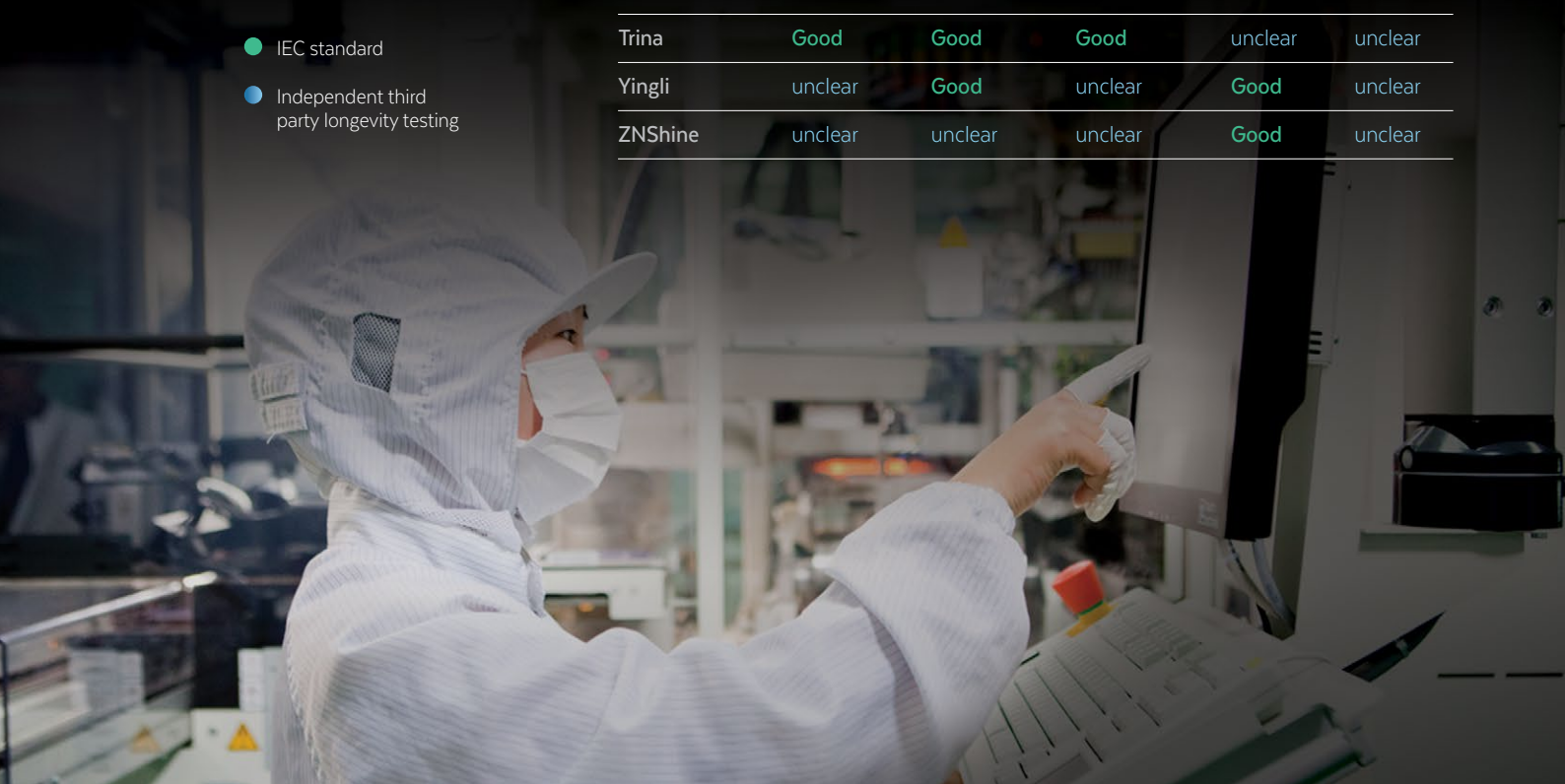
● IEC standard

● 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 |
| Phono Solar | Good | Good | Great | Great | Good |
| 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 |

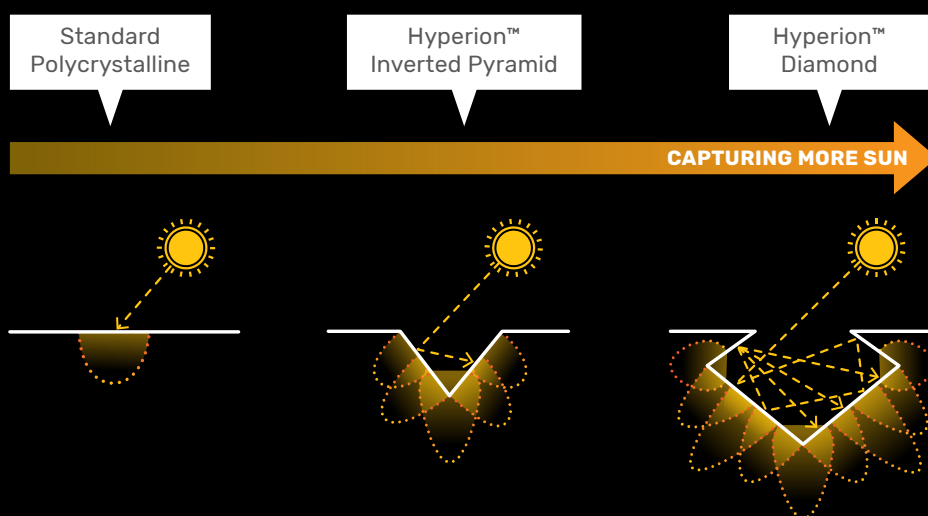


CHANGING THE DNA of Solar Cells

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 recognized as being one of the 500 largest companies in the world.

No. 5 **Forbes** FASTEST GROWING

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.



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!

More Power

Low power loss in cell connection

Low temperature coefficient (Pmax): $-0.37\% / ^\circ\text{C}$

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

More Reliable

Lower hot spot temperature

PID Resistant

Better Shading Tolerance

Optimal yields, with excellent low-light and temperature behaviour.

AUSTRALIAN ENGINEERING, DESIGN
AND MANUFACTURER SUPPORT

The Engineers Choice



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