

**SUMEC**

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

**540W**

**DIAMOND MODULE TECHNOLOGY**

# TWIN PLUS SERIES

- ✓ 15 Year Product Warranty
- ✓ Outstanding Module Efficiency
- ✓ PID Resistant
- ✓ Better Performance Under Shading Effect
- ✓ Salt Mist Certified to the Highest Severity Level

**144  
CELLS**



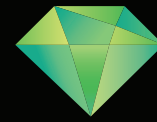
**DIAMOND  
MODULE  
TECHNOLOGY**

**15 YEAR  
PRODUCT  
WARRANTY**



**BLUE  
CHIP<sup>™</sup>**  
Solar Panel





## 40+ YEARS OF EXPERIENCE

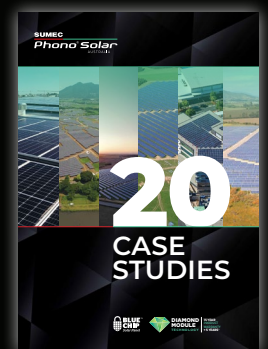
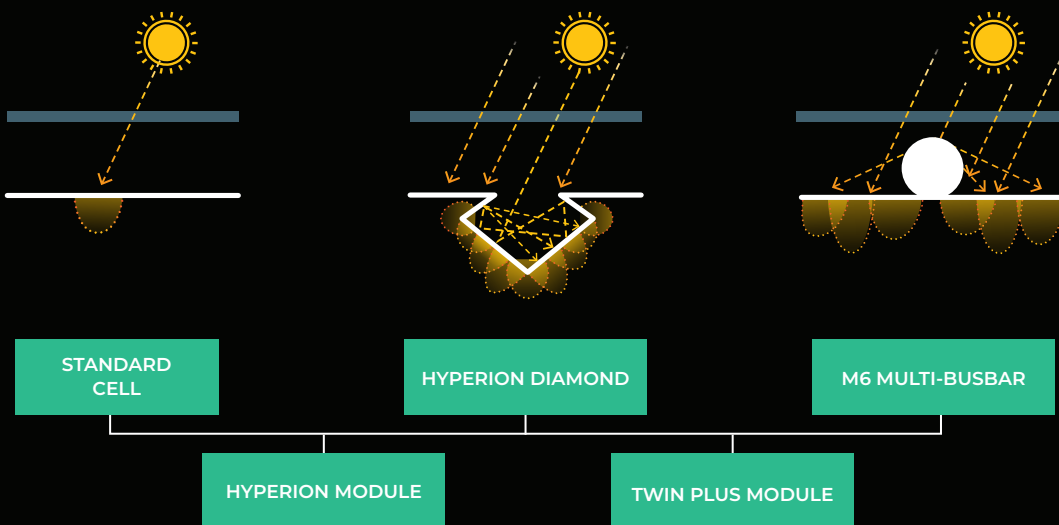
1978	2010	2018	2019	2020	2021
Sumec starts business	Phono Solar first sell solar panels in Australia Diamond Module Technology is pioneered	Phono re-brands to Sumec Phono Solar	Introduction of Market Leading 15 Year Product Warranty	New facility opens for production	Ranked as a PVEL Top Performing Panel for 2021

“ We have invested in a brand new, state of the art, manufacturing line and are proud to introduce our latest Diamond Module Technology and leading Warranty to the Australian market. ”

President Zhao, Sumec Phono Solar



## ADVANCED **DIAMOND MODULE** TECHNOLOGY



SCAN TO  
VIEW  
BROCHURE



BLOOMBERG  
**TIER 1 BRAND**



OWNED BY  
**FORTUNE 500**  
GLOBAL COMPANY



**2021 TOP  
PERFORMING  
PANEL**



**25 YEAR  
PERFORMANCE  
WARRANTY**



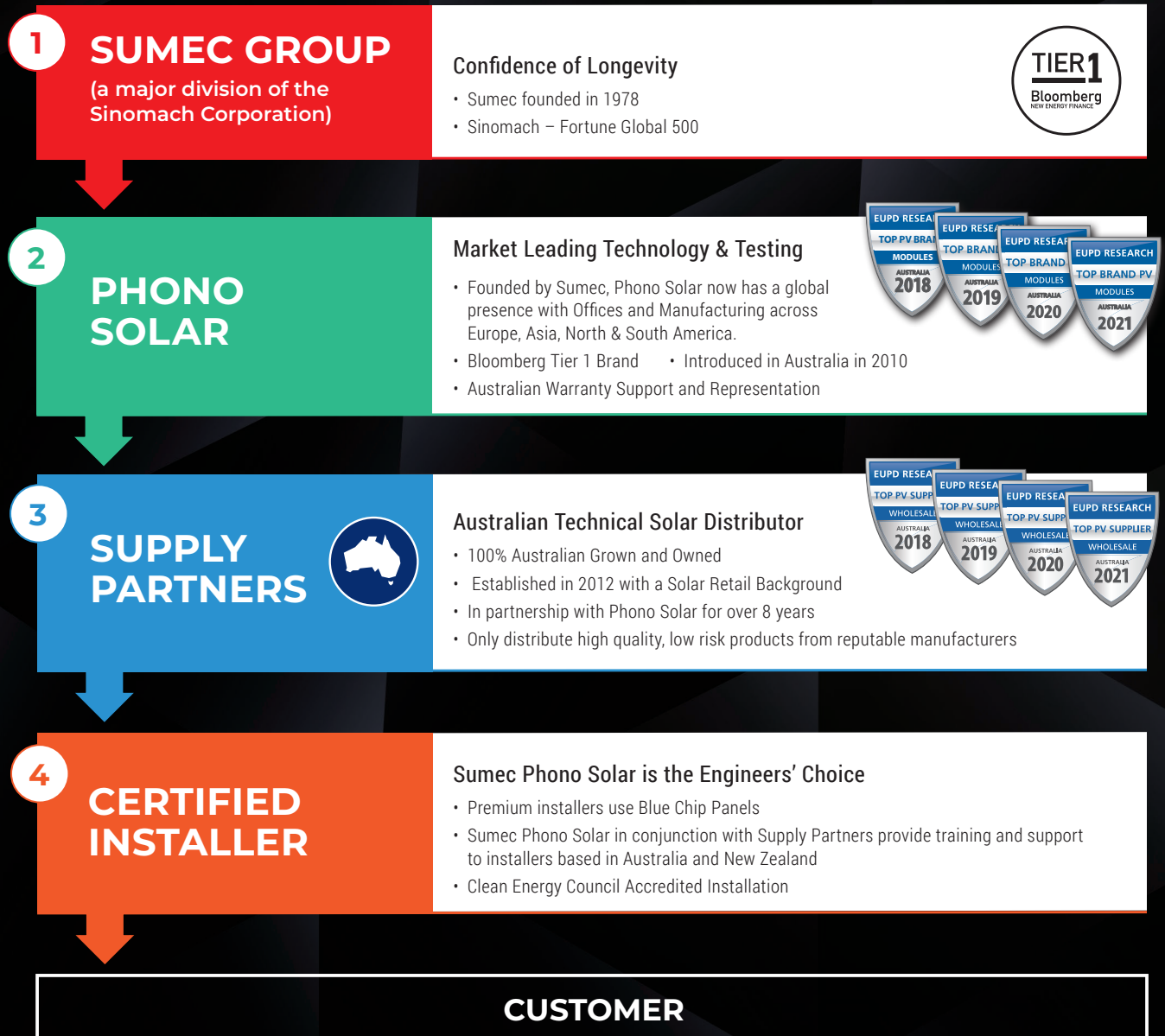
# MAKE A SECURE INVESTMENT

## 4 LAYERS OF PROTECTION

**In 2013 there were more than 400 Solar Panel Manufacturers approved for install in Australia and today there are fewer than 100.**

SUMEC were founded over 40 years ago. We understand a warranty is only as strong as the company behind it.

As a **Blue Chip brand**, Sumec Phono Solar has **longevity, commitment and stability** at every layer of protection. From the Fortune 500 Founding Corporation, through to the experienced Australian Distributor, **you can feel secure in your solar investment** for decades to come.



**AUSTRALIAN  
OFFICE AND  
REPRESENTATION**

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# TWIN PLUS SERIES

## ELECTRICAL TYPICAL VALUES

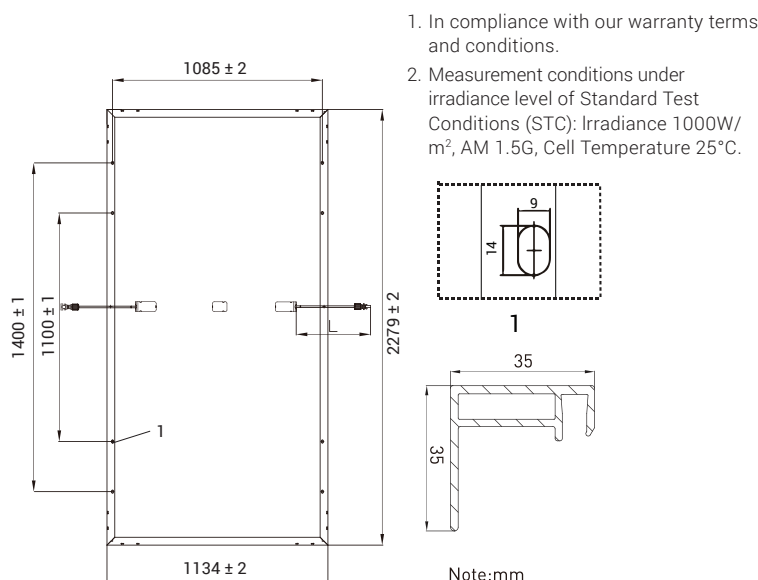
Model	<b>PS540M6-24/TH PS540M6H-24/TH</b>
Cell Type	144 x Monocrystalline 182mm x 91mm
Rated Power (P <sub>mp</sub> ) <sup>2</sup>	<b>540W</b>
Tolerance	0~+5
Rated Current (I <sub>mp</sub> )	13.06
Rated Voltage (V <sub>mp</sub> )	41.35
Short Circuit Current (I <sub>sc</sub> )	13.62
Open Circuit Voltage (V <sub>oc</sub> )	49.39
Module Efficiency (%)	20.89
NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
Voltage Temperature Coefficient	-0.28%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.35%/°C

## MECHANICAL CHARACTERISTICS

Dimensions	Length: 2279mm, Width: 1134mm Height: 35mm
Weight	29.0kg
Front Glass	3.2mm toughened glass
Frame	Anodised aluminium alloy
Cable	4mm <sup>2</sup> (IEC), 1350mm
Junction Box	IP 68 rated
Connectors	Genuine MC4 (1000V) / MC4-EVO 2 (1500V)

## PACKING CONFIGURATION

Container	Pallet	20'GP	40'HQ
Pieces per container	31	155	620



## ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85°C
Hail Diameter@ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	25A
PV Module Classification	II
Fire Rating (IEC 61730)	C
Maximum System Voltage	DC 1000V/1500V

## ELECTRICAL CHARACTERISTICS

