

SUMEC

Phono[®] Solar
AUSTRALIA

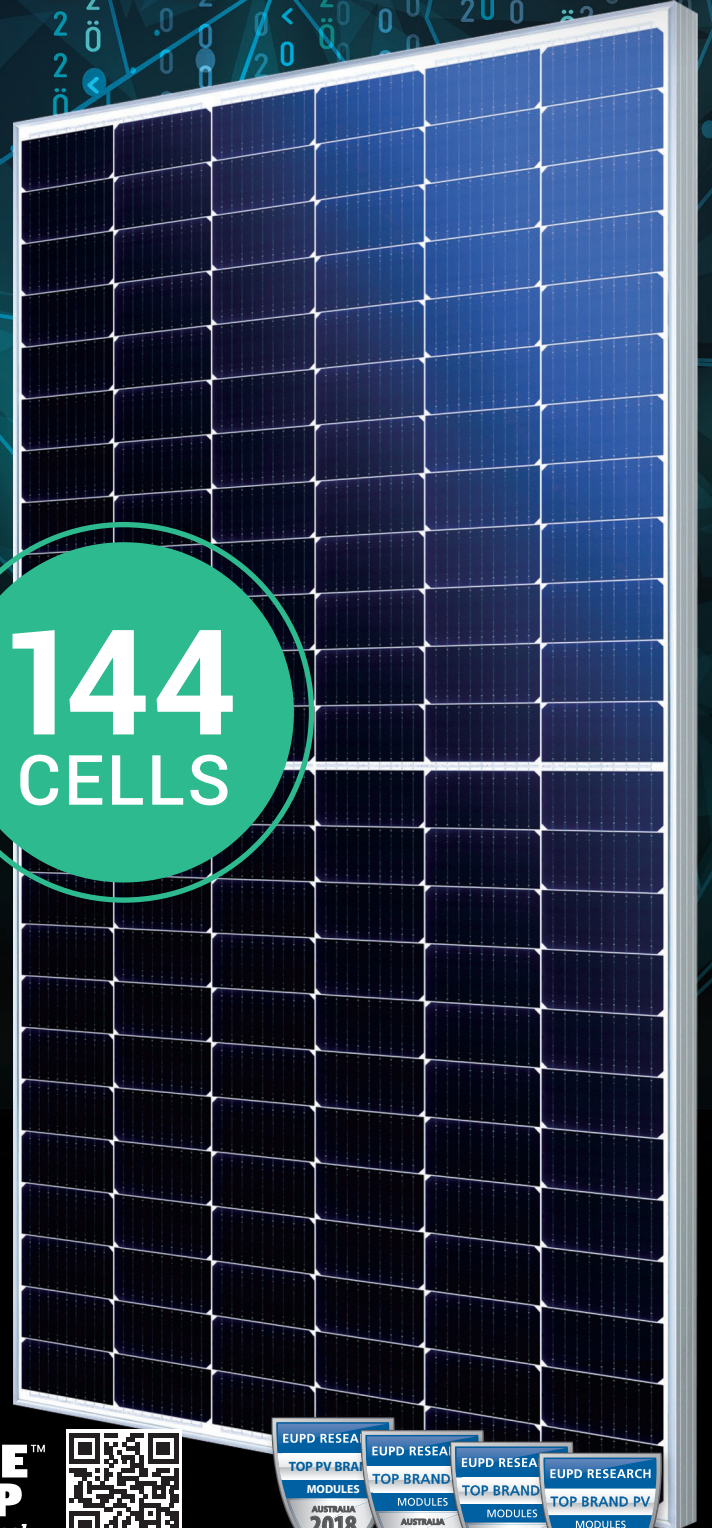
540W

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**
Solar Panel





40+ YEARS OF EXPERIENCE

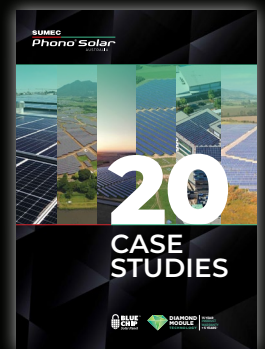
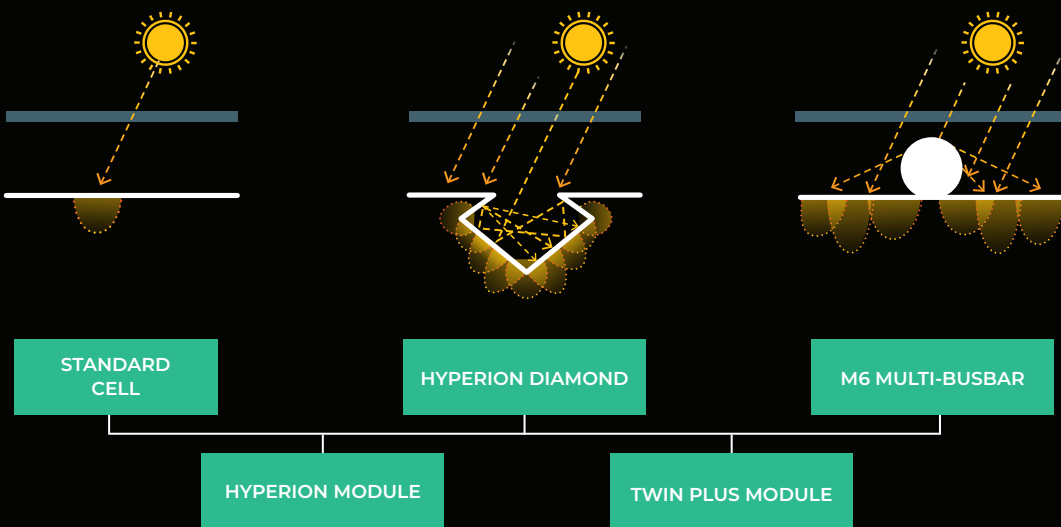
1978	2010	2018	2019	2020	2021
Sumec starts business	Phono Solar first sell solar panels in Australia Diamond Module Technology is pioneered	Phono re-brands to Sumec Phono Solar	Introduction of Market Leading 15 Year Product Warranty	New facility opens for production	Ranked as a PVEL Top Performing Panel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

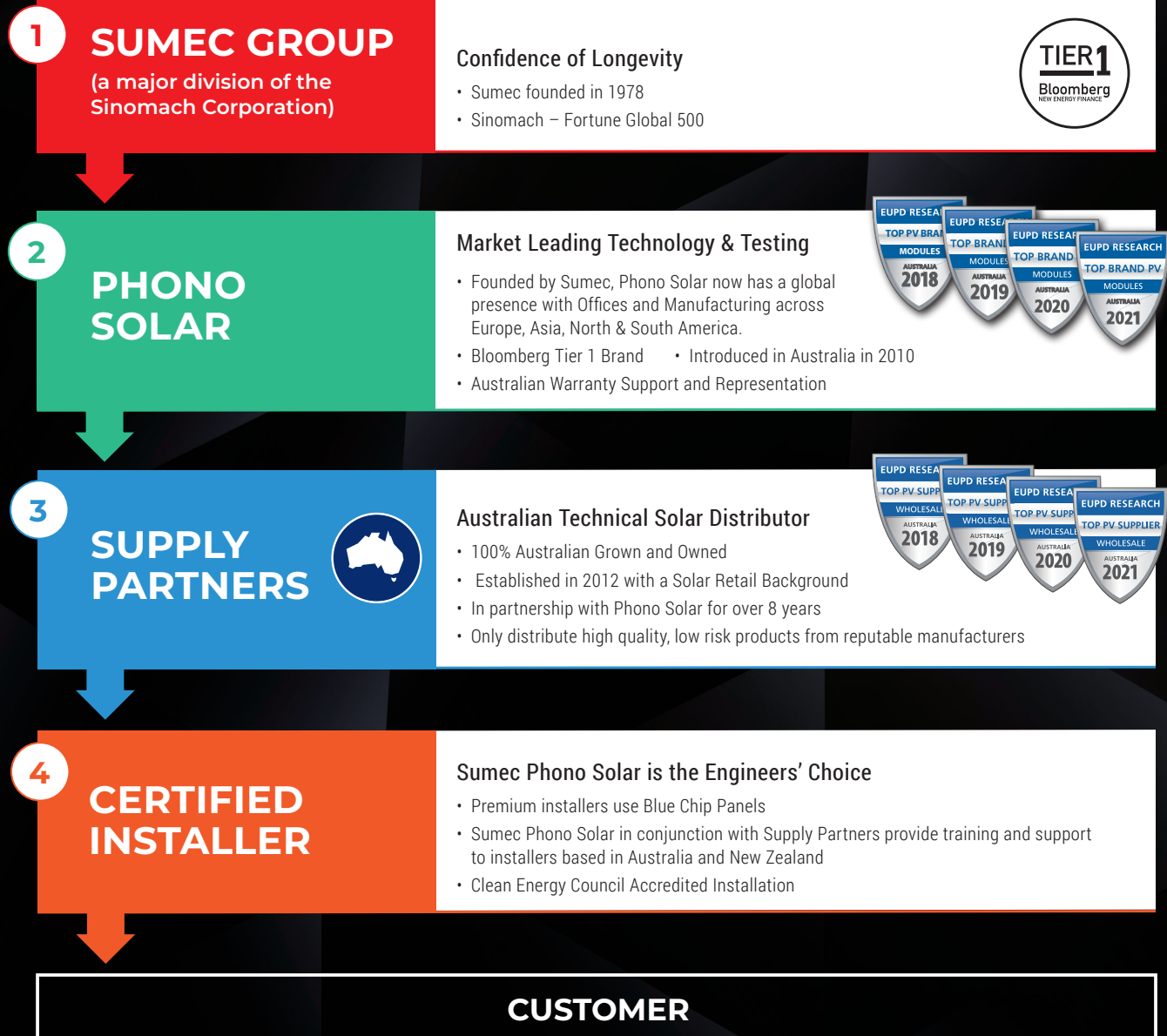
MAKE A SECURE INVESTMENT

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	PS540M6-24/TH PS540M6H-24/TH
Cell Type	144 x Monocrystalline 182mm x 91mm
Rated Power (Pmpp) ²	540W
Tolerance	0~+5
Rated Current (Impp)	13.06
Rated Voltage (Vmpp)	41.35
Short Circuit Current (Isc)	13.62
Open Circuit Voltage (Voc)	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

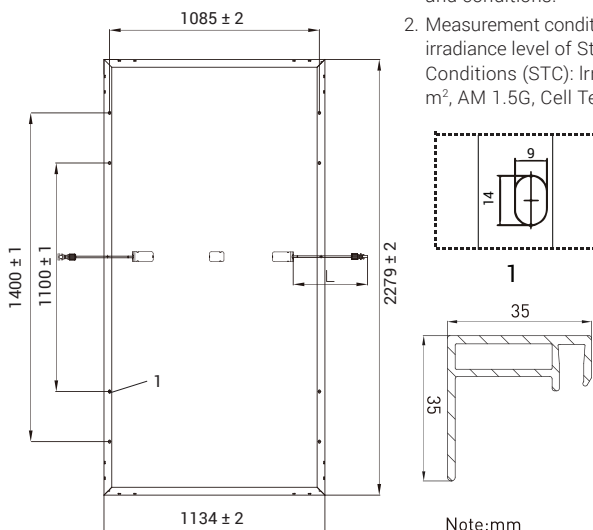
MECHANICAL CHARACTERISTICS

Dimensions	Length: 2279mm, Width: 1134mm Height: 35mm
Weight	29.0kg
Front Glass	3.2mm toughened glass
Frame	Anodised aluminium alloy
Cable	4mm ² (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

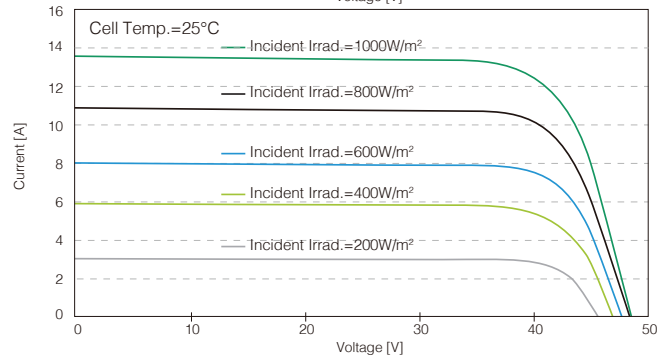
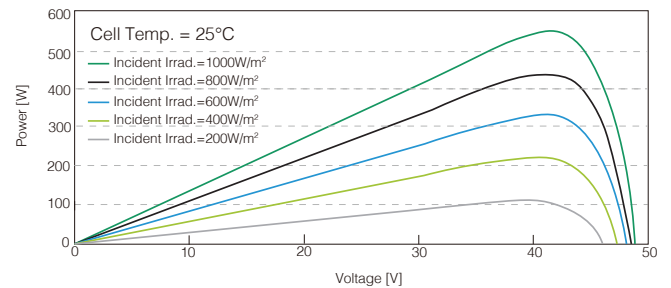
- In compliance with our warranty terms and conditions.
- Measurement conditions under irradiance level of Standard Test Conditions (STC): Irradiance 1000W/m², AM 1.5G, Cell Temperature 25°C.



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



- 15 year product warranty
- 25-year linear performance warranty to 84.8%

NOTE: This datasheet is not legally binding. Phono Solar reserves the right to make specifications changes without notice.

- In compliance with our warranty terms and conditions.

Further information can be found on our website: www.phonosolar.com.au

