

SUMEC

Phono[®] Solar
AUSTRALIA

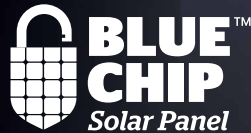
445W

HIGH EFFICIENCY MONO-PERC

TWIN PLUS

MODULE SERIES

15 DIAMOND
YEAR DEALER
PRODUCT WARRANTY



Outstanding Product Performance

- Competitive high-temperature performance with improved temperature coefficient
- Minimised power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to $43 \pm 2^\circ \text{C}$
- Higher power generation with multi-busbar and half-cut technology

Trustworthy Quality and Reliability

- Guaranteed 0~+5W positive tolerance secures reliable power output
- 5400Pa maximum front load, 2400Pa maximum rear load
- Optimised electrical design lowers hot spot risk and operating current

PID Resistant

- Industry-leading cell processing technology and electrical design ensure solid PID resistance



BLOOMBERG
TIER 1 BRAND



OWNED BY
FORTUNE 500
GLOBAL COMPANY



2019 TOP
PERFORMING
PANEL



AUSTRALIAN
OFFICE AND
REPRESENTATION

SUMEC
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- 15-year product warranty
 - 25-year linear performance warranty to 80.2%
1. In compliance with our warranty terms and conditions.

NOTE: This datasheet is not legally binding. Phono Solar reserves the right to make specifications changes without notice. Further information can be found on our website: www.phonosolar.com

ELECTRICAL TYPICAL VALUES

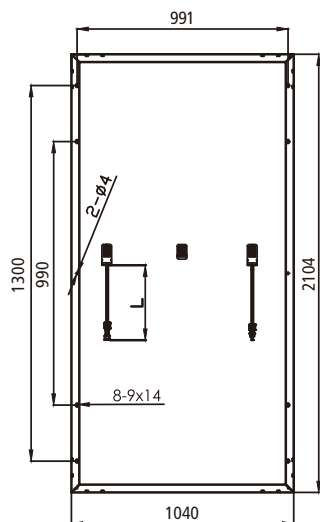
Model	PS445M4-24/TH PS445M4H-24/TH
Cell Type	144 x Monocrystalline 166mm x 83mm
Rated Power (Pmpp) ²	445W
Tolerance	0~+5
Rated Current (Impp)	10.8
Rated Voltage (Vmpp)	41.21
Short Circuit Current (Isc)	11.27
Open Circuit Voltage (Voc)	49.06
Module Efficiency (%)	20.34
NOCT (Nominal Operation Cell Temperature)	43°C ± 2°C
Voltage Temperature Coefficient	-0.30%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.38%/°C

MECHANICAL CHARACTERISTICS

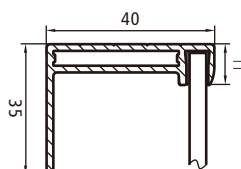
Dimensions	Length: 2104mm, Width: 1040mm Height: 40mm
Weight	24.5kg
Front Glass	3.2mm toughened glass
Frame	Anodised aluminium alloy
Cable	4mm ² (IEC), 1250mm
Junction Box	IP 68 rated
Connectors	Genuine MC4 (1000V) / MC4-EVO 2 (1500V)

PACKING CONFIGURATION

Container	Pallet	20'GP	40'GP
Pieces per container	27	225	594



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



Note: mm

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	20A
PV Module Classification	II
Module Fire Performance (UL 1703)	Type 4
Maximum System Voltage	DC 1000V/1500V

ELECTRICAL CHARACTERISTICS

