

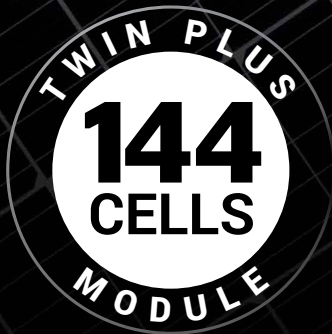
SUMEC

Phono[®] Solar
AUSTRALIA

380W

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 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

- 12-year product warranty
- 25-year linear performance warranty to 80.68%

1. In compliance with our warranty terms and conditions.

NOTE:

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



SUMEC
Phono[®] Solar
AUSTRALIA

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Twin Plus Module

ELECTRICAL TYPICAL VALUES

Model	PS380M-24/TH PS380MH-24/TH
Type	2 x 72 Monocrystalline, 6 inch x 3 inch cells
Rated Power (Pmpp) ²	380W
Tolerance	0~+5w
Rated Current (Imp)	9.42
Rated Voltage (Vmpp)	40.35
Short Circuit Current (Isc)	9.87
Open Circuit Voltage (Voc)	47.94
Module Efficiency (%)	19.15
NOCT (Nominal Operation Cell Temperature)	43°C ± 2°C
Voltage Temperature Coefficient	-0.286%/°C
Current Temperature Coefficient	+0.051%/°C
Power Temperature Coefficient	-0.368%/°C

MECHANICAL CHARACTERISTICS

Dimensions	Length: 2000mm, Width: 992mm Height: 40mm
Weight	22.6kg
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC), 1250mm
Junction Box	IP 68 rated
Connectors	MC4 (1000Vdc) / MC4 EVO2 (1500Vdc)

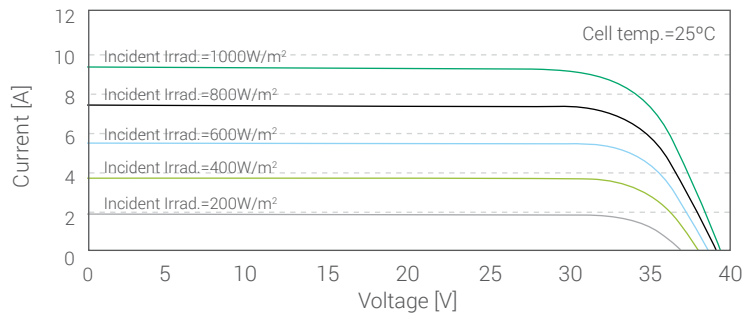
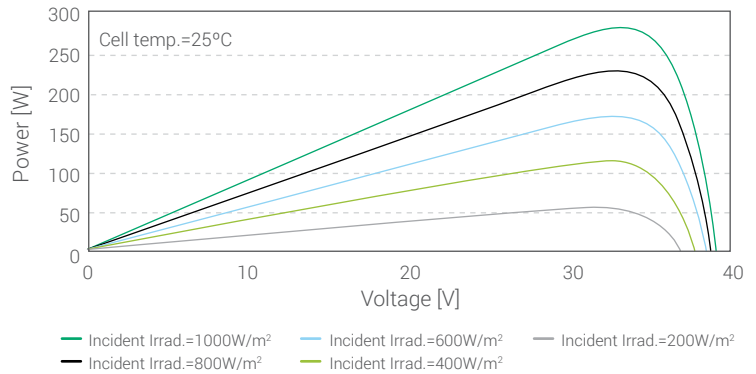
PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces per container	230	616

ABSOLUTE MAXIMUM RATING

Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
IEC Application Class (IEC61730)	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Maximum System Voltage	DC 1000V/1500V (IEC/ETL)

WEAK LIGHT PERFORMANCE



² Measurement conditions under irradiance level of Standard Test Conditions (STC): Rated Power (Pmpp), 1000W/m², Air mass 1.5 Spectrum, cell temperature of 25°C.

