

**SUMEC**

**Phono<sup>®</sup> Solar**

AUSTRALIA

**400W**

INTRODUCING

# Twin Plus Module

**15** DIAMOND  
YEAR DEALER  
PRODUCT WARRANTY

## More Power

Low power loss in cell connection

Low temperature coefficient (Pmax):  $-0.38\%/^{\circ}\text{C}$

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

## More Reliable

Lower hot spot 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**

**SUMEC**

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



**SUMEC PHONO SOLAR AUSTRALIA**

Level 35, Tower One, 100 Barangaroo Ave, Sydney, AUSTRALIA  
TEL: 02 8114 4516 [www.phonosolar.com.au](http://www.phonosolar.com.au)

**PHONO SOLAR INTERNATIONAL (SUMEC)**

No. 1 Xinghuo Rd., Nanjing Hi-tech Zone, Nanjing, CHINA  
[www.phonosolar.com](http://www.phonosolar.com)

- 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](http://www.phonosolar.com)

# TWIN PLUS MODULE

## ELECTRICAL TYPICAL VALUES

Model	PS400M1-24/TH PS400M1H-24/TH
Type	Perc Monocrystalline 158.75mm x 79.38mm
Rated Power (P <sub>mp</sub> ) <sup>2</sup>	<b>400W</b>
Tolerance	0~+5w
Rated Current (I <sub>mp</sub> )	9.83
Rated Voltage (V <sub>mp</sub> )	40.70
Short Circuit Current (I <sub>sc</sub> )	10.19
Open Circuit Voltage (V <sub>oc</sub> )	49.21
Module Efficiency (%)	19.90
NOCT (Nominal Operating 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

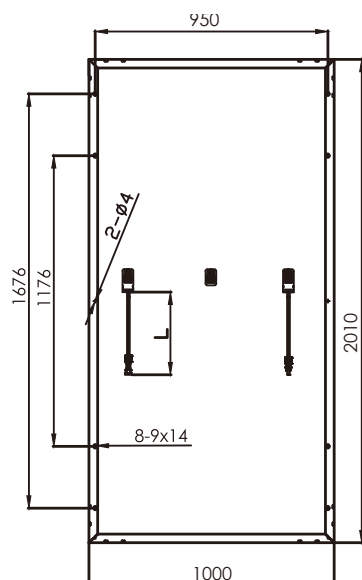
Dimensions	Length: 2010mm, Width: 1000mm Height: 40mm
Weight	23.5kg
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm <sup>2</sup> (IEC), 1250mm
Junction Box	IP 68 rated
Connectors	MC4 (1000Vdc) / MC4-EVO 2 (1500Vdc)

## PACKING CONFIGURATION

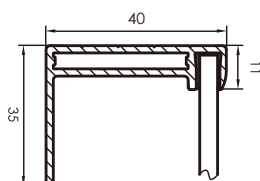
Container	20'GP	40' HQ
Pieces per container	230	616

## 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
Application Class & Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Maximum System Voltage	DC 1000V/1500V (IEC/ETL)



1. In compliance with our warranty terms and conditions.
2. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m<sup>2</sup>  
Air mass 1.5 Spectrum, cell temperature of 25°C.



Note: mm

## WEAK LIGHT PERFORMANCE

