

**SUMEC**

**Phono<sup>®</sup> Solar**

AUSTRALIA

**315W**

INTRODUCING

# Twin Plus Module Technology!

**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 internal current and temperature

## PID Resistant

## Better Shading Tolerance

Optimal Yields - Better shading tolerance combined with excellent low-light and temperature behaviour



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

# Twin Plus Module

## ELECTRICAL TYPICAL VALUES

Model	PS315M-20/UH PS315MH-20/UH
Type	2 x 60 Monocrystalline, 6 inch x 3 inch cells
Rated Power (Pmpp) <sup>2</sup>	<b>315W</b>
Tolerance	0~+5
Rated Current (Impp)	9.31
Rated Voltage (Vmpp)	33.84
Short Circuit Current (Isc)	9.76
Open Circuit Voltage (Voc)	40.11
Module Efficiency (%)	18.96
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

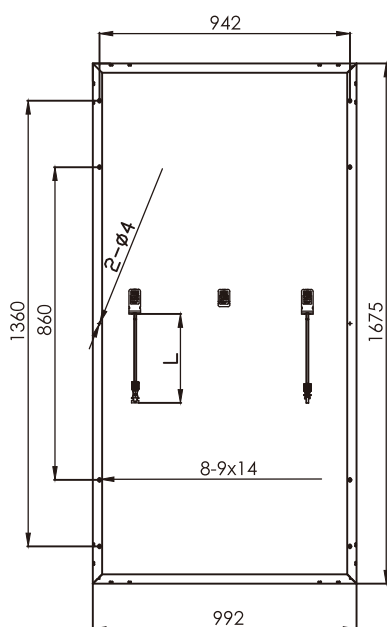
Dimensions	Length: 1675mm, Width: 992mm Height: 35mm
Weight	18.5kg
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm <sup>2</sup> (IEC), 1150mm
Junction Box	IP 68 rated
Connectors	MC4 (1000Vdc) / EVO2 (1500Vdc)

## PACKING CONFIGURATION

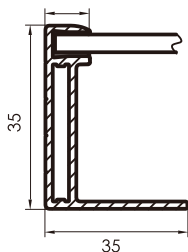
Container	20' GP	40' HQ
Pieces per container	312	832

## 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)



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



Note: mm

## WEAK LIGHT PERFORMANCE

