

SUMEC

Phono[®] Solar
AUSTRALIA

275W

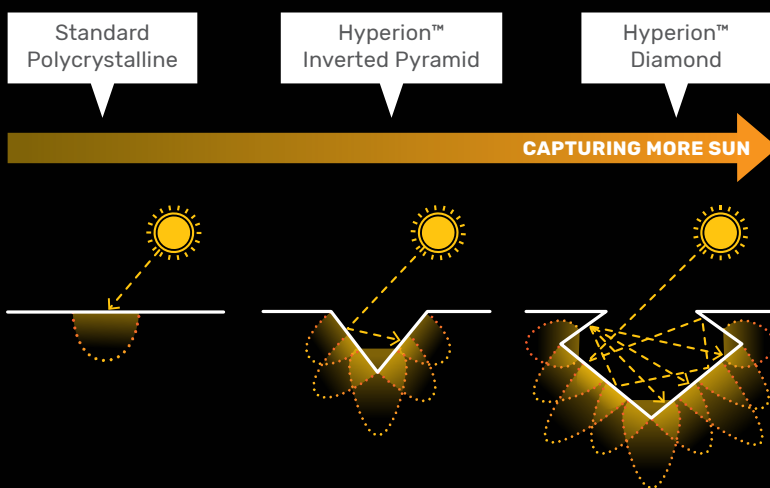
HIGH PERFORMANCE POLYCRYSTALLINE MODULE

HYPERION™ DIAMOND

Hyperion™ by Phono Solar has changed the DNA of solar cells with Diamond Nano Structure Rebuilding (NSR) technology

4 C'S OF HYPERION DIAMOND TECHNOLOGY

- 1. CELL** - Hyperion™ Nano Structure Rebuilding (NSR) Technology
- 2. CUT** - Latest diamond cell cutting technology
- 3. COLOUR** - Consistent dark blue cell colouration
- 4. CONSISTENCY** - Hyperion™ manufactured in Phono Solar's own 2.5GW cell facility



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.



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AUSTRALIA

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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

Hyperion™ Diamond Module

275W

ELECTRICAL TYPICAL VALUES

Model	PS275P-20/U PS275PH-20/U
Type	60 x Polycrystalline, 6 inch x 6 inch cells
Rated Power (Pmpp) ²	275W
Tolerance	0~+5
Rated Current (Impp)	8.66
Rated Voltage (Vmpp)	31.76
Short Circuit Current (Isc)	9.17
Open Circuit Voltage (Voc)	38.68
Module Efficiency (%)	16.90
NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
Voltage Temperature Coefficient	-0.31%/°C
Current Temperature Coefficient	+0.06%/°C
Power Temperature Coefficient	-0.40%/°C

MECHANICAL CHARACTERISTICS

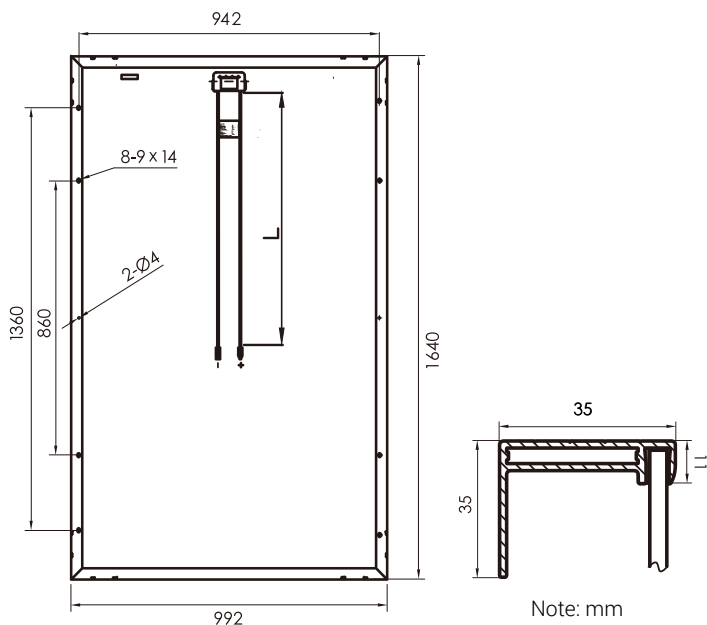
Dimensions	Length: 1640mm, Width: 992mm Height: 35mm
Weight	18kg
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC), 900mm
Junction Box	IP 68 rated
Connectors	MC4 (1000Vdc) / MC4 EVO2 (1500Vdc)

PACKING CONFIGURATION

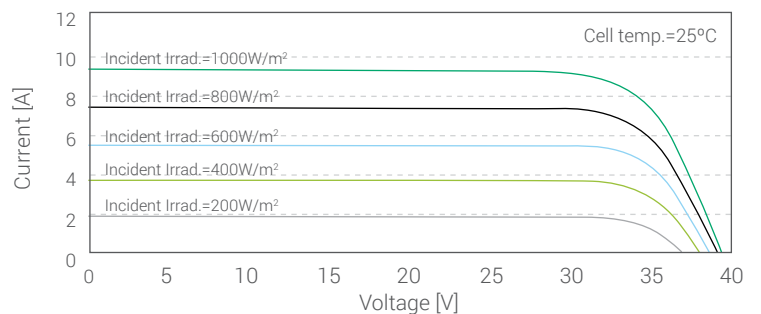
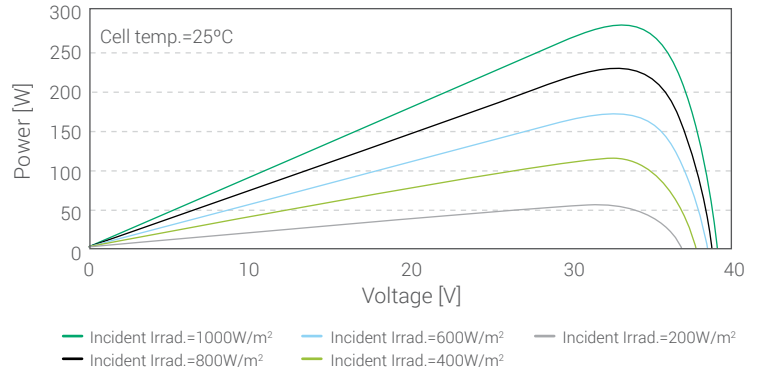
Container	20'GP	40' HQ
Pieces per container	312	896

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.

