

Phono[®] Solar

TwinPlus Module

Poly/270-285W



PID Resistant



Better Shading Tolerance



More Reliable

Lower hot spot temperature



More Power

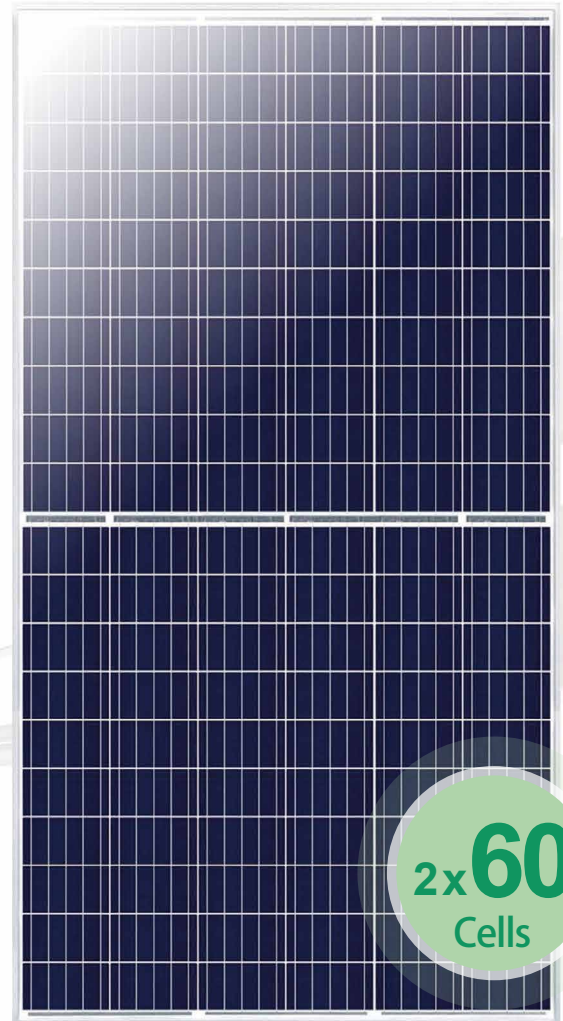
Low power loss in cell connection
Low temperature coefficient (Pmax): $-0.37\% / ^\circ\text{C}$
Low NOCT: $43\pm 2^\circ\text{C}$

Bloomberg
NEW ENERGY FINANCE

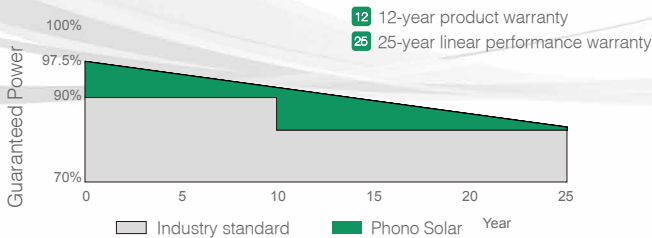
Tier1



TOP PERFORMER



2x60
Cells



EN EN-20180918

SINOMACH | SUMEC
SUMEC GROUP CORPORATION

ELECTRICAL TYPICAL VALUES

Model	PS270P-20/UH PS270PH-20/UH	PS275P-20/UH PS275PH-20/UH	PS280P-20/UH PS280PH-20/UH	PS285P-20/UH PS285PH-20/UH
Type	Polycrystalline 6 inch x 3 inch square			
Rated Power (P _{mpp})	270W	275W	280W	285W
Tolerance	0~+5w			
Rated Current (I _{mpp})	8.56	8.66	8.75	8.84
Rated Voltage (V _{mpp})	31.55	31.76	32.01	32.24
Short Circuit Current (I _{sc})	9.01	9.10	9.19	9.28
Open Circuit Voltage (V _{oc})	37.50	37.78	38.08	38.34
Module Efficiency (%)	16.25	16.55	16.85	17.15
NOCT (Nominal Operation Cell Temperature)	43±2°C			
Voltage Temperature Coefficient	-0.308%/°C			
Current Temperature Coefficient	+0.051%/°C			
Power Temperature Coefficient	-0.376%/°C			

MECHANICAL CHARACTERISTICS

Dimension (Lx W x H)	Length: 1675mm (65.95 inch) Width: 992mm (39.06 inch) Height: 35mm (1.38 inch)
Weight	18.5kg (40.78 lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) , Length:350mm (vertical) 1150mm (horizontal) or Customized length
Junction Box	IP 68 rated

ABSOLUTE MAXIMUM RATING

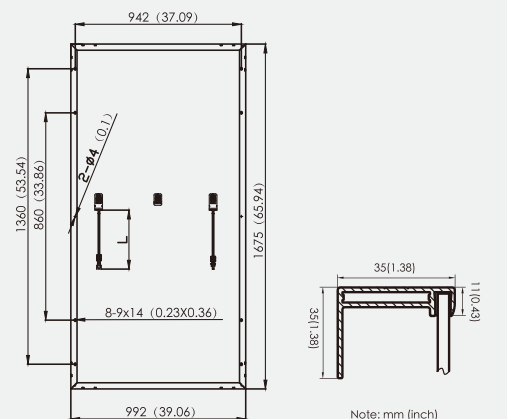
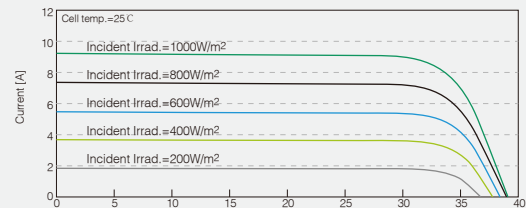
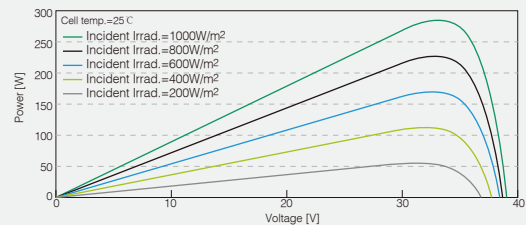
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class and Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type 1
Maximum System Voltage	DC 1000V/1500V (IEC/ETL)

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	312	832

- In compliance with our warranty terms and conditions.
- Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m²
Air mass 1.5 Spectrum, cell temperature of 25°C.

ELECTRICAL CHARACTERISTICS



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Note: This datasheet is not legally binding. Phono Solar Technology Co., Ltd. reserves the right to adjust specifications without notice. Further information please refer to our [Website:www.phonosolar.com](http://www.phonosolar.com), [E-mail:info@phonosolar.com](mailto:info@phonosolar.com)