

# Phono<sup>®</sup> Solar

## Nano-Texturing Module

### Poly/270-280W

3%

#### More Output

More energy yield up to 3% (kwh/kw)



#### Higher Power Class

4%

#### Higher Cell Efficiency

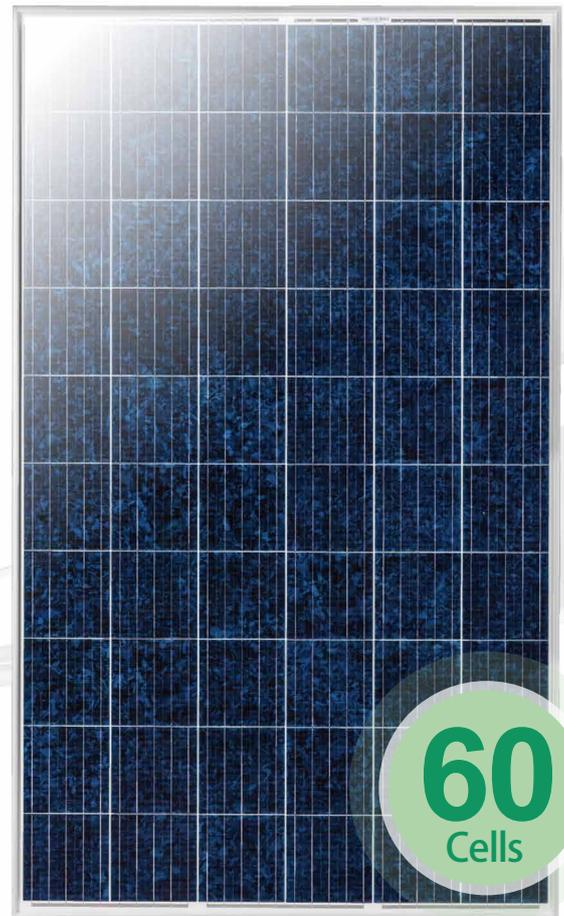
Nano texturing cell ensures better absorption of diffused reflection spectrum and more cell efficiency up to 4%.

Bloomberg  
NEW ENERGY FINANCE

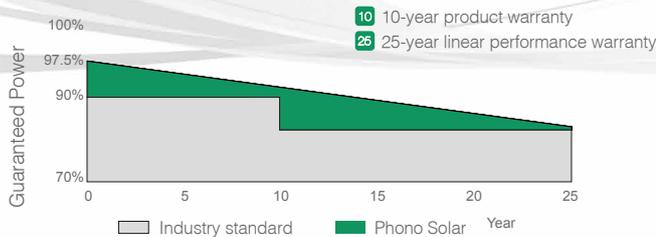
Tier1



TOP  
PERFORMER



60  
Cells



EN EN-20180702

**SINOMACH | SUMEC**  
SUMEC GROUP CORPORATION

## ELECTRICAL TYPICAL VALUES

Model	PS270P-20/U	PS275P-20/U	PS280P-20/U
Type	Polycrystalline 6 inch x 6 inch square, 6 x 10 pieces in series		
Rated Power (Pmpp)	270W	275W	280W
Tolerance		0~+5w	
Rated Current (Impp)	8.61	8.72	8.83
Rated Voltage (Vmpp)	31.40	31.60	31.80
Short Circuit Current (Isc)	9.10	9.20	9.30
Open Circuit Voltage (Voc)	38.20	38.30	38.40
Module Efficiency (%)	16.60	16.90	17.21
NOCT (Nominal Operation Cell Temperature)		45.±2°C	
Voltage Temperature Coefficient		-0.31%/°C	
Current Temperature Coefficient		+0.05%/°C	
Power Temperature Coefficient		-0.41%/°C	

## MECHANICAL CHARACTERISTICS

	Length: 1640mm (64.57 inch)
Dimension (L x W x H)	Width: 992mm (39.06 inch)
	Height: 35mm (1.38 inch)
Weight	18kg (39.68 lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm <sup>2</sup> (IEC) , 1000mm or Customized Length
Junction Box	IP 68 rated

## ABSOLUTE MAXIMUM RATING

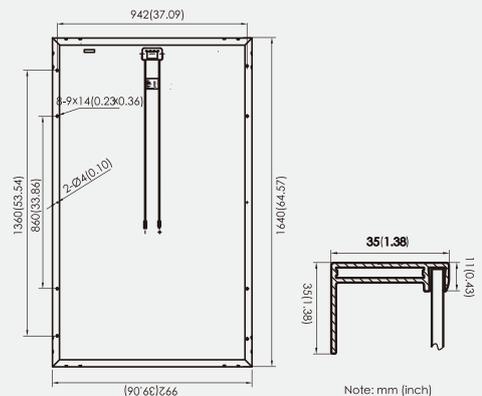
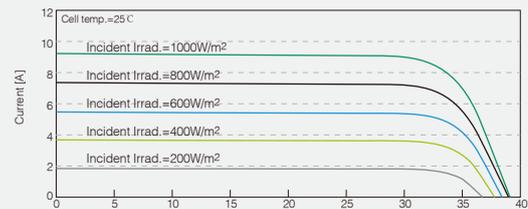
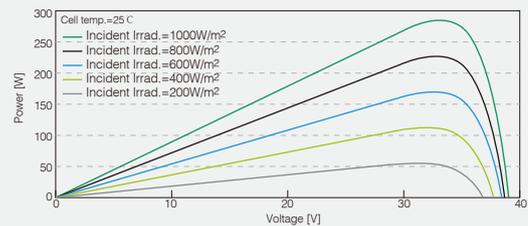
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class and Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type1
Maximum System Voltage	DC 1000V/1500V (IEC/ETL)

## PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	300	840

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.

## 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)