

# Phono<sup>®</sup> Solar

## Premium Module

### Poly/270-280W



**Excellent Temperature Coefficient**



**Higher Power Output**

Outstanding performance in weak-light conditions



**Better Durability**

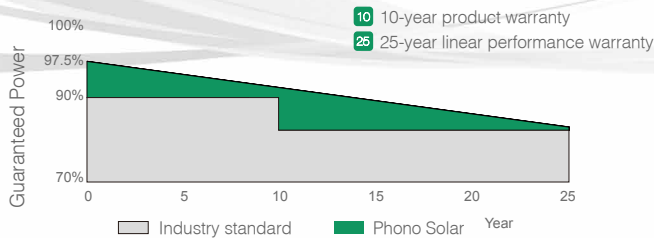
Enhanced durability in practical application through more strict in house testing standards than IEC

**Bloomberg**  
NEW ENERGY FINANCE

**Tier1**



**TOP**  
PERFORMER



EN EN-20180824

**SINOMACH | SUMEC**  
SUMEC GROUP CORPORATION

## ELECTRICAL TYPICAL VALUES

| Model                                     | PS270P-20/U<br>PS270PH-20/U                                     | PS275P-20/U<br>PS275PH-20/U | PS280P-20/U<br>PS280PH-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)                      | 8.59  | 8.66                        | 8.73                        |
| Rated Voltage (Vmpp)                      | 31.44   | 31.76                       | 32.08                       |
| Short Circuit Current (Isc)               | 9.09  | 9.17                        | 9.25                        |
| Open Circuit Voltage (Voc)                | 38.39   | 38.68                       | 39.02                       |
| 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           | +0.06%/°C   |                             |                             |
| Power Temperature Coefficient             | -0.40%/°C   |                             |                             |

## MECHANICAL CHARACTERISTICS

|                       |  |
|-----------------------|--|
| Dimension (L x W x H) | Length: 1640mm (64.57 inch)<br>Width: 992mm (39.06 inch)<br>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) , Length:900mm or Customized Length                           |
| Junction Box          | IP 68 rated  |

## ABSOLUTE MAXIMUM RATING

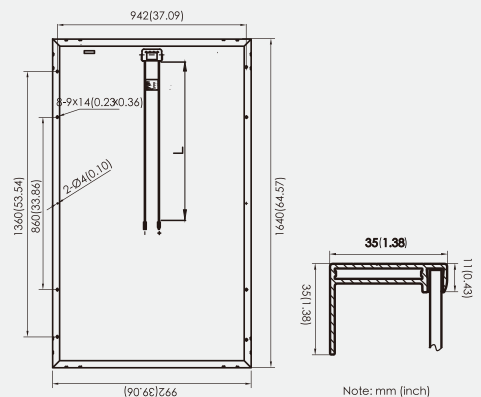
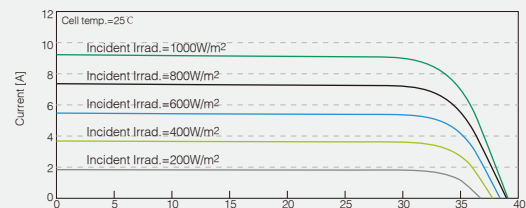
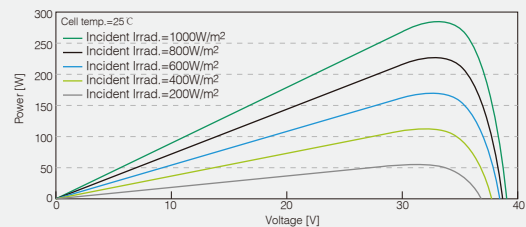
| Parameter                          | Values                   |
|------------------------------------|--------------------------|
| Operating Temperature              | From -40 to +85°C        |
| Hail Diameter @ 80km/h             | Up to 25mm               |
| Surface Maximum Load Capacity      | 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 | 312    | 896    |

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



**Phono<sup>®</sup> Solar**

**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)