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Solar Panel Guide Specification Data Sheet

**Phono Solar Technology Co., Ltd.
Premium Poly/270-280
PS280P(H)-20/U**

Also available on the web at
EnergyPal.com/phono-solar-technology-co-ltd-solar-panels/ps280p-h-20-u

Phono[®] Solar

Premium Module

Poly/270-280W



Excellent Temperature Coefficient



Higher Power Output

Outstanding performance in weak-light conditions



Better Durability

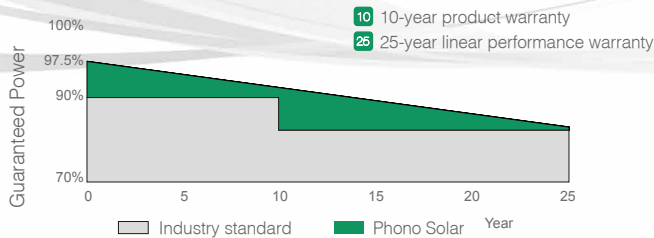
Enhanced durability in practical application through more strict in house testing standards than IEC

Bloomberg
NEW ENERGY FINANCE

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TOP
PERFORMER



EN EN-20180824

SINOMACH | SUMEC
SUMEC GROUP CORPORATION

ELECTRICAL TYPICAL VALUES

Model	PS270P-20/U PS270PH-20/U	PS275P-20/U PS275PH-20/U	PS280P-20/U 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) 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 ² (IEC) , Length:900mm or Customized Length
Junction Box	IP 68 rated

ABSOLUTE MAXIMUM RATING

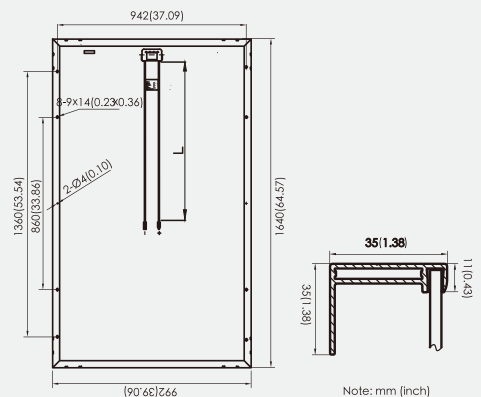
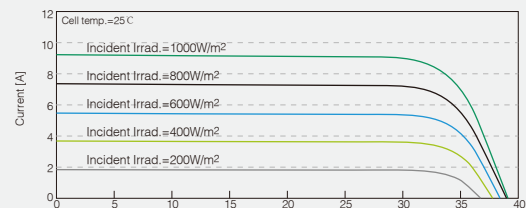
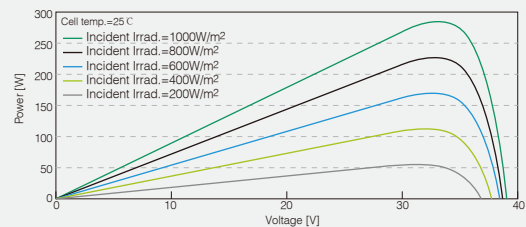
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class and Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type1
Maximum System Voltage	DC 1000V/1500V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

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	312	896

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

ELECTRICAL CHARACTERISTICS



Phono[®] 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)