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EnergyPal

Solar Panel Guide Specification Data Sheet

**Phono Solar Technology Co., Ltd.
TwinPlus Poly/270-285
PS280P(H)-20/UH**

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

Phono[®] Solar

TwinPlus Module

Poly/270-285W



PID Resistant



Better Shading Tolerance



More Reliable

Lower hot spot temperature



More Power

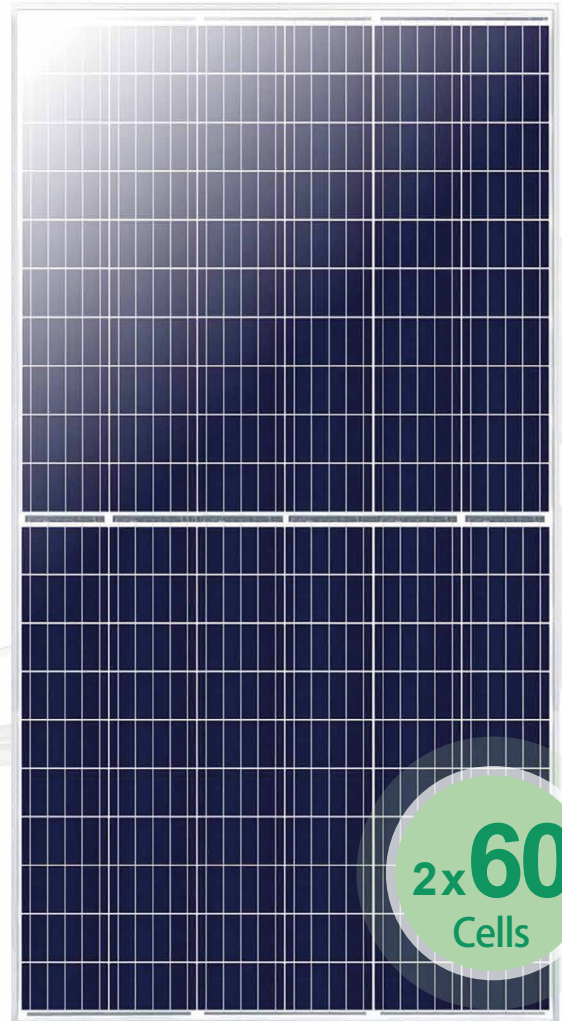
Low power loss in cell connection
Low temperature coefficient (Pmax): $-0.37\% / ^\circ\text{C}$
Low NOCT: $43\pm 2^\circ\text{C}$

Bloomberg
NEW ENERGY FINANCE

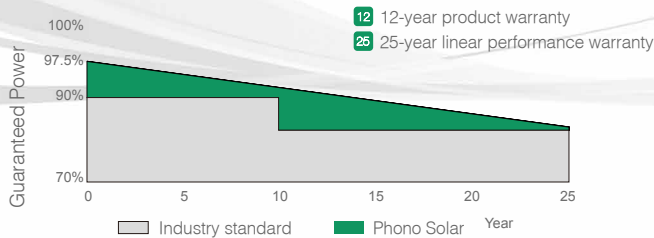
Tier1



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 (Pmpp)	270W	275W	280W	285W
Tolerance	0~+5w			
Rated Current (Impp)	8.56	8.66	8.75	8.84
Rated Voltage (Vmpp)	31.55	31.76	32.01	32.24
Short Circuit Current (Isc)	9.01	9.10	9.19	9.28
Open Circuit Voltage (Voc)	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

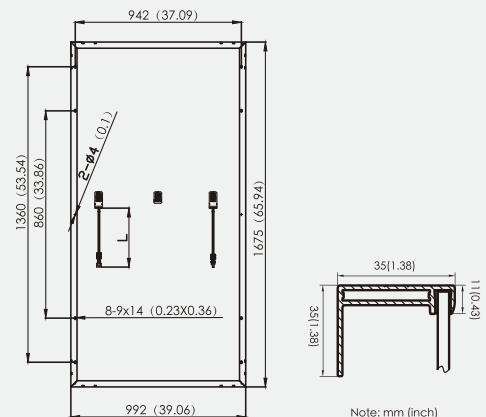
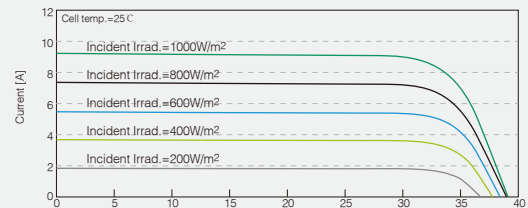
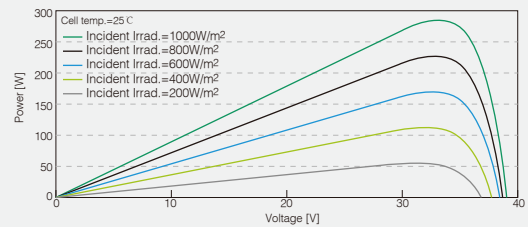
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class and Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type 1
Maximum System Voltage	DC 1000V/1500V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



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)