

# Phono<sup>®</sup> Solar

## Dural Glass Module

Mono/280-295W



### More Safe

Fireproof glass back sheet make module much safer



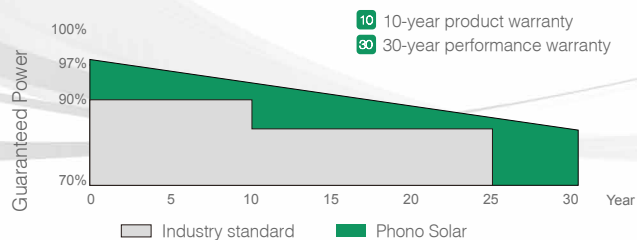
### Industrial Aesthetics

Available for residential, commercial & utility sites



### Higher Reliability

Using tempered glass as back sheet, which brings higher reliability and better anti-corrosiveness to the module



60  
Cells



EN-20180516

**SINOMACH | SUMEC**  
SUMEC GROUP CORPORATION

## ELECTRICAL TYPICAL VALUES

Model	PS280MGF-20/U	PS285MGF-20/U	PS290MGF-20/U	PS295MGF-20/U
Type	Monocrystalline 6 inch x 6 inch square, 6 × 10 pieces in series			
Rated Power (Pmpp)	280W	285W	290W	295W
Tolerance	0~+5w			
Rated Current (Impp)	9.11	9.17	9.25	9.31
Rated Voltage (Vmpp)	30.74	31.08	31.36	31.69
Short Circuit Current (Isc)	9.65	9.68	9.71	9.74
Open Circuit Voltage (Voc)	39.50	39.60	39.70	39.80
Module Efficiency (%)	16.86	17.16	17.46	17.76
NOCT (Nominal Operation Cell Temperature)	45.±2°C			
Voltage Temperature Coefficient	-0.295%/°C			
Current Temperature Coefficient	+0.046%/°C			
Power Temperature Coefficient	-0.396%/°C			

## MECHANICAL CHARACTERISTICS

Length: 1664mm (65.51 inch)	
Dimension (L× W × H)	Width: 998mm (39.29 inch)
	Height: 20mm (0.79 inch)
Weight	20kg (44.09 lb)
Front Glass	2.0mm/2.0mm heat-strengthened glass(front/back)
Frame	Anodized aluminium alloy
Cable	4mm <sup>2</sup> (IEC) , 130mm/250mm or 1150mm*2
Junction Box	IP 68 rated

## ABSOLUTE MAXIMUM RATING

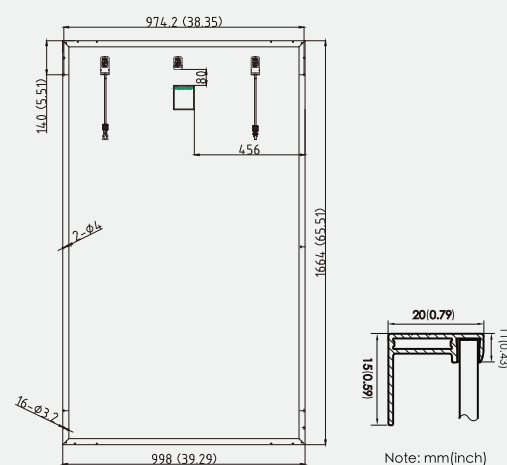
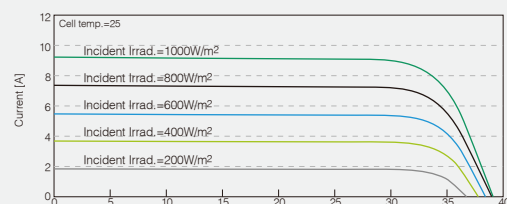
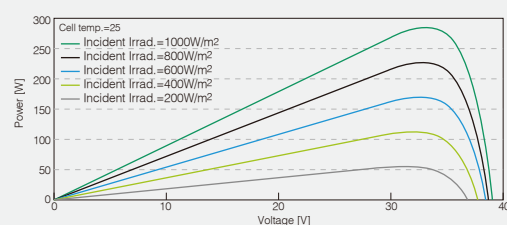
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 2400Pa
Maximum Series Fuse Rating	20A
IEC Application Class (IEC61730)	A
Fire Rating (IEC61730)	A
Module Fire Performance (UL 1703)	Type1
Maximum System Voltage	DC 1000V/1500V (IEC)

## PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	408	1400

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® 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)