

Phono[®] Solar

TwinPlus Module

Perc/305-315W



PID Resistant



Better shading tolerance



More Reliable

Lower hot spot temperature



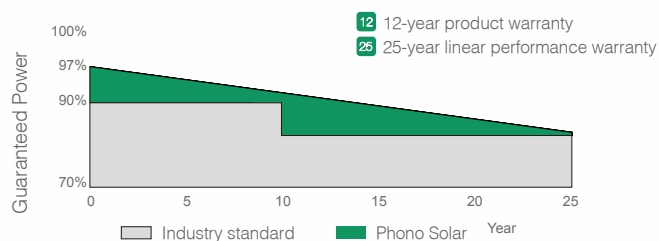
More Power

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



Better Aesthetics

Black module looks fantastic on residential roof
and add asset value



Bloomberg
NEW ENERGY FINANCE

Tier1



TOP
PERFORMER



2x60
Cells



EN EN-20181128

SINOMACH | SUMEC
SUMEC GROUP CORPORATION

ELECTRICAL TYPICAL VALUES

Model	PS305M-20/UH PS305MH-20/UH	PS310M-20/UH PS310MH-20/UH	PS315M-20/UH PS315MH-20/UH
Type	Monocrystalline 6 inch x 3 inch square		
Rated Power (P _{mpp})	305W	310W	315W
Tolerance		0~+5w	
Rated Current (I _{mpp})	9.13	9.22	9.31
Rated Voltage (V _{mpp})	33.41	33.63	33.84
Short Circuit Current (I _{sc})	9.58	9.67	9.76
Open Circuit Voltage (V _{oc})	39.68	39.90	40.11
Module Efficiency (%)	18.36	18.66	18.96
NOCT (Nominal Operation Cell Temperature)		43±2°C	
Voltage Temperature Coefficient		-0.286%/°C	
Current Temperature Coefficient		+0.051%/°C	
Power Temperature Coefficient		-0.368%/°C	

MECHANICAL CHARACTERISTICS

Length: 1675mm (65.95 inch)	
Dimension (L× W × H)	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

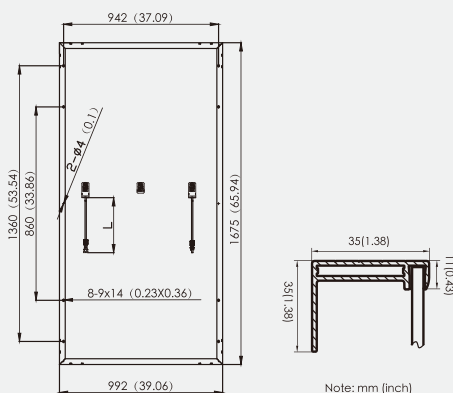
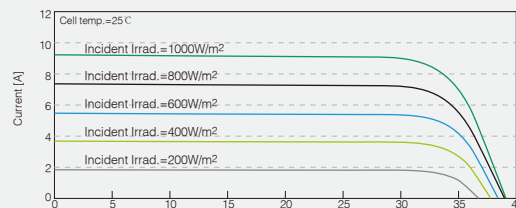
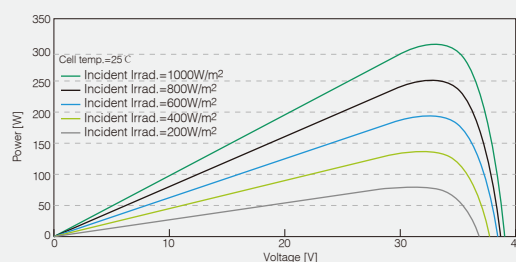
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class and Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type1
Maximum System Voltage	DC 1000V/1500V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

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	312	780

1. In compliance with our warranty terms and conditions.
2. 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)