





Model	POLY			Black Silicon	
	PS260P-20/U	PS265P-20/U	PS270P-20/U	PS275P-20/U	PS280P-20/U
Type	 Polycrystalline 6 inch x 6 inch square, 6 x 10 pieces in series			 Polycrystalline 6 inch x 6 inch square, 6 x 10 pieces in series	
Rated Power (Pmpp) (W)	260	265	270	275	280
Tolerance (W)	0~5	0~5	0~5	0~5	0~5
Voc (V)	37.69	38.03	38.39	38.30	38.40
Isc (A)	8.94	9.04	9.09	9.20	9.30
Vm (V)	30.81	31.19	31.44	31.60	31.80
Im (A)	8.44	8.52	8.59	8.72	8.83
Module Efficiency (%)	15.98	16.29	16.60	16.90	17.20
NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C				
Voltage Temperature Coefficient	-0.31%/°C				
Current Temperature Coefficient	+0.06%/°C				
Power Temperature Coefficient	-0.40%/°C				

Model	MONO			PERC			
	PS270M-20/U	PS275M-20/U	PS280M-20/U	PS285M-20/U	PS290M-20/U	PS295M-20/U	PS300M-20/U
Type	 Monocrystalline 6 inch x 6 inch square, 6 x 10 pieces in series			 Monocrystalline 6 inch x 6 inch square, 6 x 10 pieces in series			
Rated Power (Pmpp) (W)	270	275	280	285	290	295	300
Tolerance (W)	0~5	0~5	0~5	0~5	0~5	0~5	0~5
Voc (V)	38.30	38.40	38.50	39.60	39.70	39.80	39.90
Isc (A)	9.05	9.10	9.15	9.65	9.71	9.74	9.82
Vm (V)	31.22	31.43	31.61	31.72	31.87	32.07	32.19
Im (A)	8.65	8.75	8.86	8.99	9.10	9.20	9.32
Module Efficiency (%)	16.60	16.90	17.2	17.51	17.83	18.13	18.44
NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C			45°C ± 2°C			
Voltage Temperature Coefficient	-0.35%/°C			-0.288%/°C			
Current Temperature Coefficient	+0.07%/°C			+0.047%/°C			
Power Temperature Coefficient	-0.45%/°C			-0.398%/°C			

1. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m2, Air mass 1.5 Spectrum, cell temperature of 25°C.

www.phonosolar.com

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Note: This datasheet is not legally binding. Phono Solar reserves the right to make specifications changes without notice. Further information can be found on our website: www.phonosolar.com

DS-EN-U-SMART-170610



SMART
MODULES

Tier 1
Bloomberg
NEW ENERGY FINANCE

DNV-GL
Top Performer

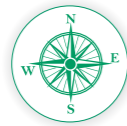
国机集团 SINOMACH | SUMEC 苏美达能源

260-280W POLY

270-300W MONO



Eliminates mismatches



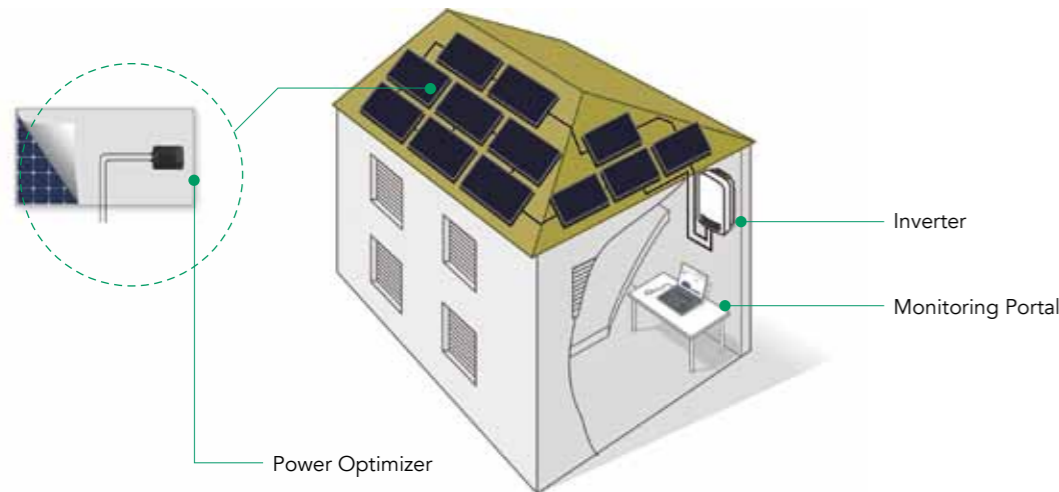
Suitable for diverse direction



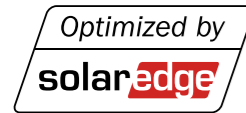
SafeDC™



Module-level monitoring*



Up to
25%
more output



About Phono Solar Company Overview

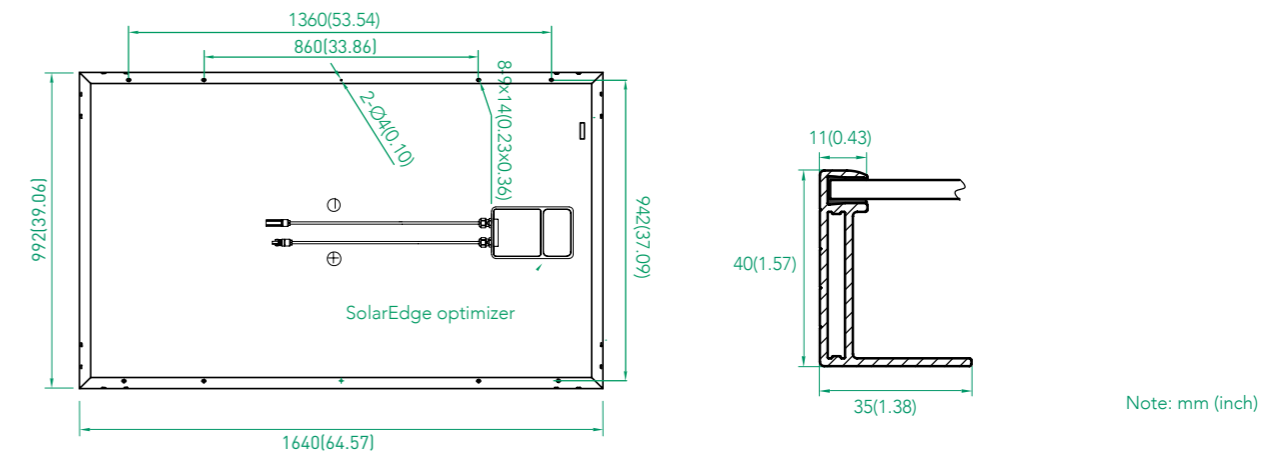
Phono Solar Technology Co., Ltd., was founded by SUMEC Group Corporation, a member of the China National Machinery Industry Corporation (SINOMACH). Phono Solar is a leading brand in the new energy industry, providing high quality new energy products since 2004.

The subsidiary of
FORTUNE
Global 500

SINCE
1978
ESTABLISHED

MECHANICAL CHARACTERISTICS

Dimension	Length: 1640mm (64.57 inch)
	Width: 992mm (39.06 inch)
	Height: 40mm (1.57 inch)
Weight	19kg (41.9 lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) / 12AWG (UL), 1100mm
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	15A
IEC Application Class (IEC61730)	A
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Maximum System Voltage	DC 1000V (IEC)
	DC 600V (UL) / 1000V (ETL)

WEAK LIGHT PERFORMANCE

Intensity [W/m ²]	I _{mpp}	V _{mpp}
1000	1.0	1.000
800	0.8	0.996
600	0.6	0.990
400	0.4	0.983
200	0.2	0.952
100	0.1	0.921

PACKING CONFIGURATION

Container	40' HQ	20' GP
Pieces per container	728	264

