

## ABOUT PHONO SOLAR

Phono Solar Technology Co., Ltd. is one of the world's leading renewable energy product manufacturers and a well trusted brand provider. The Phono Solar brand has become synonymous with high performing, top quality photovoltaic panels that are ideal for use in large scale power plants, commercial and residential installations.



Up to  
**25%**  
more output

HIGH PERFORMANCE  
SOLAR MODULES

**250W-270W**

**POLY**

### SolarEdge:



Eliminates mismatches



Suitable for diverse  
direction



SafeDC™



Module-level monitoring\*

### Module:



Outstanding performance in  
weak-light conditions



Anti-PID<sup>[1]</sup>



Excellent temperature  
coefficient giving higher yields  
in the long term



IP68 connectors enhance the  
reliability of the PV system



Positive current sorting



Certified to withstand  
increased loads of up to 5400Pa

### Durability assured:



Salt mist corrosion  
certification



Ammonia corrosion  
certification



Fire test certification



Blowing sand resistance  
certification



## MECHANICAL CHARACTERISTICS

<b>Solar Cells</b>	Polycrystalline 156mm x 156mm square, 6 × 10 pieces in series
<b>Dimension</b>	Length: 1640mm (64.6 inch)
	Width: 992mm (39.1 inch)
	Height: 40mm (1.6 inch)
<b>Weight</b>	19kg (41.9lbs)
<b>Front Glass</b>	3.2mm toughened glass
<b>Frame</b>	Anodized aluminium alloy
<b>Cable</b>	6mm <sup>2</sup> (IEC) / 12AWG(UL), 900mm
<b>Junction Box</b>	IP 67 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 (UL 1703)	C
Maximum System Voltage	DC 1000V(IEC)
	DC 600V(UL)/1000V(ETL)

## ELECTRICAL TYPICAL VALUES<sup>[4]</sup>

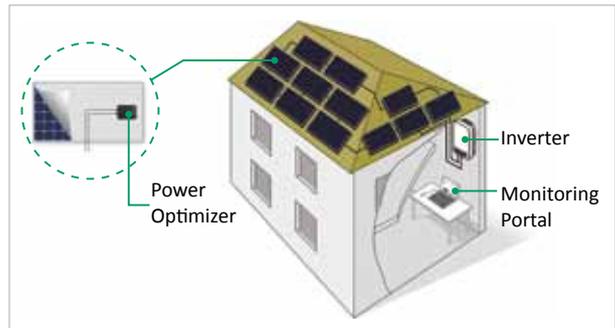
Model	Rated Power (P <sub>mpp</sub> )	Rated Current (I <sub>mpp</sub> )	Rated Voltage (V <sub>mpp</sub> )	Short Circuit Current (I <sub>sc</sub> )	Open Circuit Voltage (V <sub>oc</sub> )	Module Efficiency (%)
PS250P-20/U	250W	8.30A	30.2V	8.70A	37.8V	15.37
PS255P-20/U	255W	8.42A	30.4V	8.80A	37.9V	15.67
PS260P-20/U	260W	8.53A	30.6V	8.90A	38.0V	15.98
PS265P-20/U	265W	8.61A	30.8V	9.00A	38.1V	16.29
PS270P-20/U	270W	8.71A	31.0V	9.10A	38.2V	16.60

### Output during operation (modules connected to Solaredge inverter)

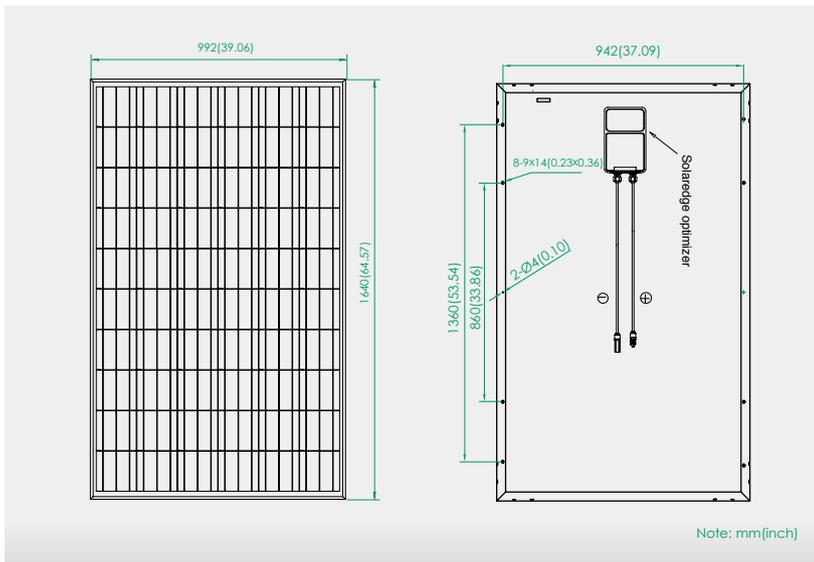
Maximum output current	15 ADC
Operating output voltage	5-60 VDC
Total maximum string voltage (controlled by inverter)-1-ph	500 VDC

### Output during standby

Safety output voltage per power optimizer	1 VDC
PV system design using a solaredge inverter	
Minimum number of modules per string	8 (1-ph system)/16(3-ph system)
Maximum number of modules per string	Module power dependent; maximum 25 (1-ph system)/50(3-ph system)
Maximum power per string	5250 (1-ph system)/11250(3-ph system)
Parallel strings of different lengths or orientations	Yes



## DIMENSIONS



## TEMPERATURE CHARACTERISTICS

NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
Voltage Temperature Coefficient	-0.31%/°C
Current Temperature Coefficient	+0.07%/°C
Power Temperature Coefficient	-0.40%/°C

## WEAK LIGHT PERFORMANCE

Intensity [W/m <sup>2</sup> ]	I <sub>mpp</sub>	V <sub>mpp</sub>
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

## PACKING CONFIGURATION

Container	40' HQ
Pieces per pallet	24
Pallets per container	28
Pieces per container	672

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](http://www.phonosolar.com)

1. Anti-PID modules are only available upon request.
2. In compliance with our warranty terms and conditions.
3. In PV Cycle member countries only, see: [www.pvcycle.org](http://www.pvcycle.org)
4. 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.

\*Module-level monitoring and DC SAFETY are available only when the OPJ300-LV installed with Solar Edge inverter or with Solar Edge Safety & Monitoring Interface.

## PARTNER INFORMATION

