

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

255W-280W

MONO

SolarEdge:



Eliminates mismatches



Suitable for diverse direction



SafeDC™



Module-level monitoring*

Module:



Outstanding performance in weak-light conditions



Anti-PID^[1]



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

Solar Cells	Monocrystalline 156mm x 156mm square, 6 x 10 pieces in series
Dimension	Length: 1640mm (64.6 inch)
	Width: 992mm (39.1 inch)
	Height: 40mm (1.6 inch)
Weight	19kg (41.9lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	6mm ² (IEC) / 12AWG(UL), 900mm
Junction Box	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^{[4],[5]}

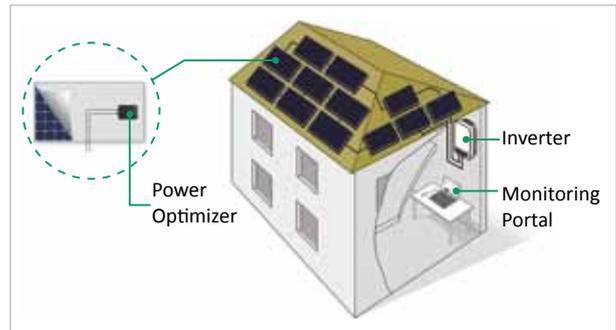
Model	Rated Power (P _{mpp})	Rated Current (I _{mpp})	Rated Voltage (V _{mpp})	Short Circuit Current (I _{sc})	Open Circuit Voltage (V _{oc})	Module Efficiency (%)
PS255M-20/U	255W	8.35A	30.6V	8.75A	38.0V	15.67
PS260M-20/U	260W	8.46A	30.8V	8.85A	38.1V	15.98
PS265M-20/U	265W	8.55A	31.0V	8.95A	38.2V	16.29
PS270M-20/U	270W	8.65A	31.2V	9.05A	38.3V	16.60
PS275M-20/U	275W	8.75A	31.4V	9.10A	38.4V	16.90
PS280M-20/U	280W	8.86A	31.6V	9.15A	38.5V	17.20

Output during operation (modules connected to Solaredge inverter)

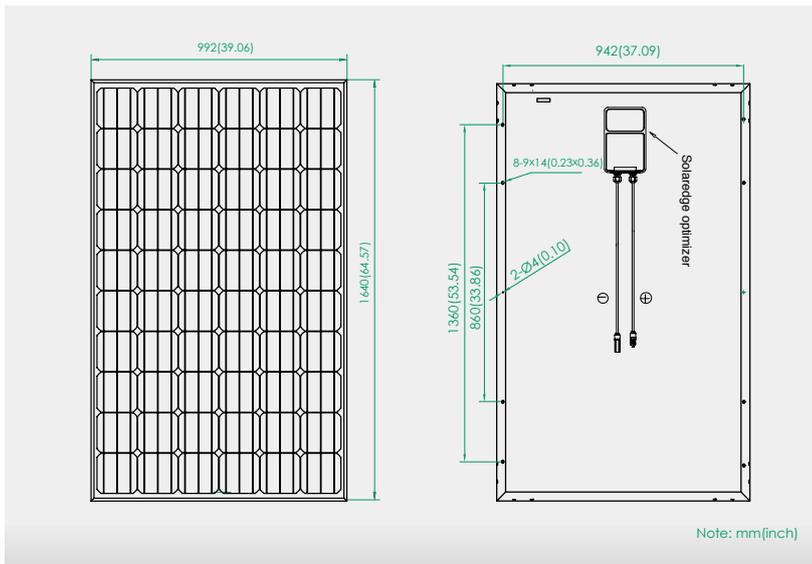
Maximum output current	15 ADC
Operating output voltage	5-60 VDC
Total maximum string voltage (controlled by inverter)-1-ph	500 VDC

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	-0.33%/°C
Current Temperature Coefficient	+0.06%/°C
Power Temperature Coefficient	-0.43%/°C

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

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

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
4. Defined as standard deviation of thousands measurements. Absolute power values depend on the measuring system. They can differ by +/-5% from one measuring system to another.
5. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m², 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

