High Performance Modules
300W - 325W

Phono Solar

GET GREEN ENERGY TOGETHER

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.

- Outstanding performance in weak-light conditions
- PID — Anti-PID [1]
- Excellent temperature coefficient giving higher yields in the long term
- IP68 — IP68 connectors enhance the reliability of the PV system
- Positive current sorting
- 5400PA — Certified to withstand increased loads of up to 5400Pa
- 25 YEAR — 10-year product warranty
  25-year performance warranty[2]

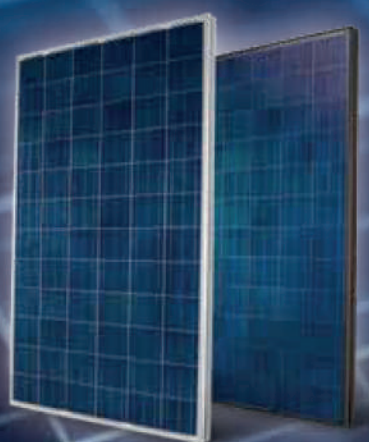
Durability assured:

- Salt mist corrosion resistance
- Ammonia corrosion resistance
- Fire test resistance
- Blowing sand resistance

- Manufacturing facility certified by ISO 9001, ISO 14001 and OHSAS 18001
- Internal quality control has standards higher than both IEC and UL
- Product quality is assured through the use of branded components
- Free module recycling through PV Cycle Association membership[3]

HIGH PERFORMANCE SOLAR MODULES

300W-325W



Diamond Series

Onyx Series

CE TÜV c UL us c ETL us CEC Clean Energy Council PV CYCLE

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MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm x 156mm square, 6 x 12 pieces in series
Dimension	Length: 1956mm (77.0 inch)
	Width: 992mm (39.1 inch)
	height:45mm(1.8inch)
Weight	24kg(52.9lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm^2(IEC) / 12AWG(UL), 1100mm
Junction Box	IP 67 rated

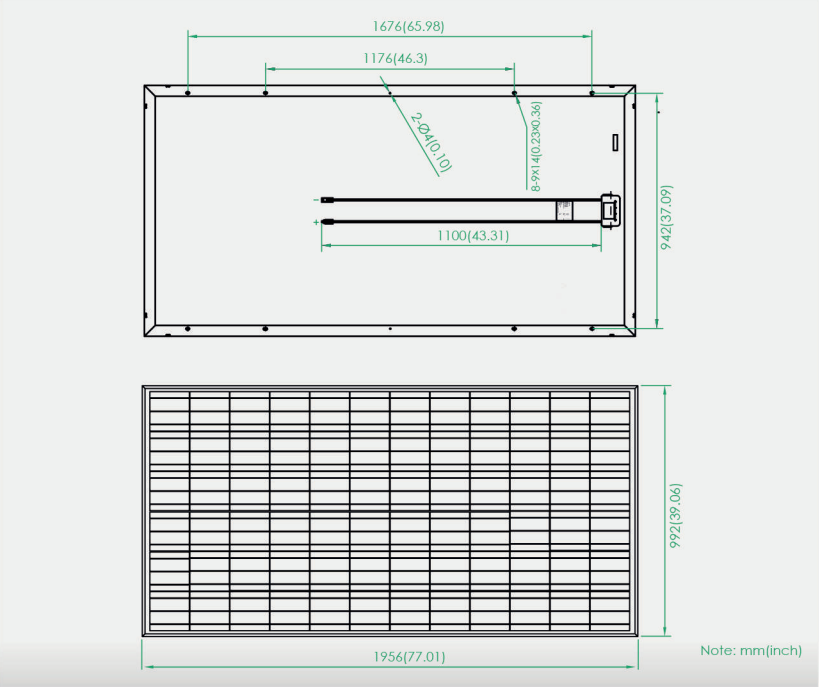
ABSOLUTE MAXIMUM RATING

Parameter	Values
Operating Temperature	From -40 to +85℃
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)

ELECTRICAL TYPICAL VALUES[4]

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 (%)
PS300P-24/T	300W	8.24A	36.4V	8.65A	45.6V	15.46
PS305P-24/T	305W	8.35A	36.5V	8.73A	45.8V	15.72
PS310P-24/T	310W	8.45A	36.7V	8.80A	46.0V	15.98
PS315P-24/T	315W	8.56A	36.8V	8.88A	46.2V	16.23
PS320P-24/T	320W	8.65A	37.0V	8.95A	46.4V	16.50
PS325P-24/T	325W	8.69A	37.4V	8.99A	46.5V	16.70

DIMENSIONS



TEMPERATURE CHARACTERISTICS

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

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	20' HQ
Pieces per container	576	200

PARTNER INFORMATION

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. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m^2, Air mass 1.5 Spectrum, cell temperature of 25°C.

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