



PV CYCLE

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.



than both IEC and UL

Association membership^[3]

HIGH PERFORMANCE SOLAR MODULES 290W-315W

Diamond Series



Phono[®] Solar

MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm x 156mm square, 6 x 12 pieces in series	
	Length: 1956mm (77.0 inch)	
Dimension	Width: 992mm (39.1 inch)	
	height:45mm(1.8inch)	
Weight	24kg(52.9lbs)	
Front Glass	3.2mm toughened glass	
Frame	Anodized aluminium alloy	
Cable	4mm²(IEC) / 12AWG(UL), 1100mm	
Junction Box	IP 67 rated	

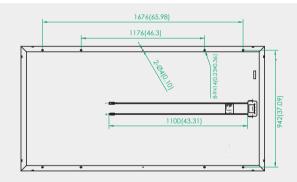
ABSOLUTE MAXIMUM RATING

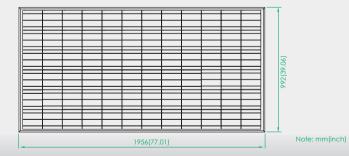
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	15A
IEC Application Class (IEC61730)	A
Fire Rating (UL 1703)	С
Manimum Contant Vallance	DC 1000V(IEC)
Maximum System Voltage	DC 600V(UL)/1000V(ETL)

ELECTRICAL TYPICAL VALUES^{[4],[5]}

Model	Rated Power (P _{mpp})	Rated Current (Impp)	Rated Voltage (V _{mpp})	Short Circuit Current (Isc)	Open Circuit Voltage (Voc)	Module Efficiency (%)
PS290P-24/T	290W	8.03	36.1	8.50	45.2	14.95
PS295P-24/T	295W	8.14	36.2	8.58	45.4	15.20
PS300P-24/T	300W	8.24	36.4	8.65	45.6	15.46
PS305P-24/T	305W	8.35	36.5	8.73	45.8	15.72
PS310P-24/T	310W	8.45	36.7	8.80	46.0	15.98
PS315P-24/T	315W	8.56	36.8	8.88	46.2	16.23

DIMENSIONS





TEMPERATURE CHARACTERISTICS

NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
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]	Impp	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	22
Pallets per container	22
Pieces per container	484

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. 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.