



PREMIUM SOLAR MODULES 310-330W_{POLY}

Why is Phono Solar the Engineers choice?

- Industry leading Module components see overleaf
- Excellence performance in Australia's toughest conditions
- Top performer in independent batch test conditions*
- Higher quality means less failures and more production

*DNL-GL stated during 2016 scorecard "By choosing vendors with lower degradation levels the likelihood of technical and financial success for your project is increased".



Outstanding performance in weak-light conditions



Anti-PID



Certified to withstand increased loads of up to 5400pa



Excellent temperatures coefficient giving higher yields in the long term



IP68 connector enhance the reliability of the PV system



4 Bus Bar Design



12 year product warranty
25 year performance warranty¹



Northern Territory approved



Australian Office & Representation

Phono Solar Highlights:



Approved Partner



Owned by Fortune 500 Global Company



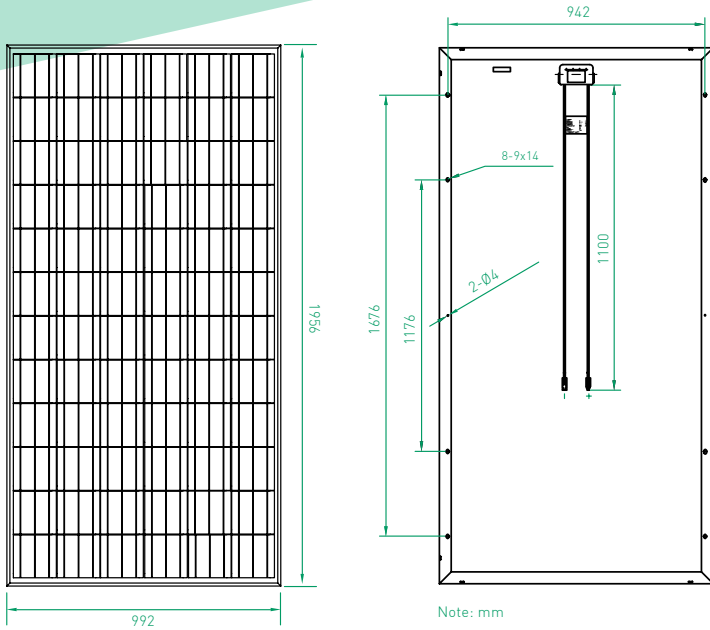
Bloomberg Tier 1



Top Performing Panel

PREMIUM

SOLAR MODULES 310-330W POLY



MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm x 156mm square 6 x12 pieces in series
Dimension	Length: 1956mm Width: 992mm Height: 45mm
Weight	24kgs
Front Glass	3.2mm toughed glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC), 1100mm, MC4 Connectors
Junction Box	IP68 rated
Cell Type	4 Bus Bars

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 /1500V (IEC)

ELECTRICAL TYPICAL VALUES ⁽¹⁾

Model	Rated Power (P _{mpp})	Tolerance	Rated Current (I _{mpp})	Rated Voltage (V _{mpp})	Short Circuit Current	Open Circuit Voltage	Module Efficiency (%)
PS310P-24T	310W	0~+5W	8.45A	36.7V	8.80A	46.0V	15.98
PS315P-24T	315W	0~+5W	8.55A	36.9V	8.88A	46.2V	16.23
PS320P-24T	320W	0~+5W	8.65A	37.0V	8.95A	46.4V	16.49
PS325P-24T	325W	0~+5W	8.69A	37.4V	8.99A	46.5V	16.75
PS330P-24T	330W	0~+5W	8.73A	37.8V	9.03A	46.7V	17.01

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

TEMPERATURE CHARACTERISTICS

NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
Voltage Temperature Coefficient	-0.31%/k
Current Temperature Coefficient	+0.06%/k
Power Temperature Coefficient	-0.40%/k

PACKING CONFIGURATION

Container	40' HQ	20' GP
Pieces per container	576	200

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