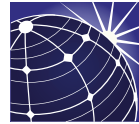


PRODUCT PS-P72

MULTI-CRYSTALLINE MODULE

(280/285/290/295/300)w



Philadelphia Solar
Delivering Clean Energy Solutions

PHILADELPHIA SOLAR MODULES

Philadelphia Multi-crystalline solar modules with maximum power of (300 Wp) are produced using the state-of-the-art (Automated) robotic production lines. These modules are suitable to be used for most electrical power applications and have excellent durability to prevailing weather conditions.

FEATURES

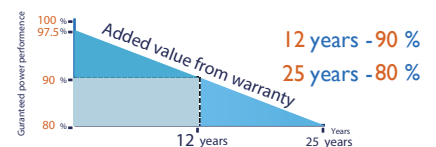
-  Optimum Maximum Conversion Efficiency.
-  Positive Power Tolerance Up To 3% extra output
-  High Transparency - Anti - Soiling Surface Reduce Power Loss From Dirt And Dust .
-  Produced Under Systematic Quality Control Covering All Processes And Check Points.
-  Fast and Easy Installation.
-  Anodized Aluminum Frame for better corrosion resistance.
-  Excellent wide variety of solar output modules.
-  Excellent Mechanical Loads, Certified To Withstand High Wind Loads (2400 pa) And Snow Loads (5400 pa)
-  100 % EL (Electroluminescence) inspection.



BENEFITS

- Outstanding technical Support.
- After Sales-Service.
- 10 Years Warranty on material and workmanship .
- 25 Years Linear Performance Warranty.
- Marketing Support To Official Distributors.
- Customized mounting solutions.

W a r r a n t y Linear Performance Warranty



APPLICATIONS

CONTACT US



On-grid residential roof-tops



On-grid commercial/ industrial roof-tops



Solar Power plants



Off-Grid Systems

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AMMAN - JORDAN
Website : www.philadelphia-solar.com

PRODUCT PS-P72

MULTI-CRYSTALLINE MODULE

(280/285/290/295/300)W

MECHANICAL CHARACTERISTICS

MODULE COMPONENTS	VALUES
Solar Cells per Module	72 (6 x 12) in series
Cell Type	Grade "A" - Multi-crystalline silicon, 156 x 156 mm ²
Front Surface	Anti-soiling surface Low Iron Tempered 4mm Solar Glass
Encapsulant	Fastcure EVA
Back Cover	Backsheet
Frame Material	Anodized
Connection	IP65 Junction Box
Number of diodes	3 Bypass diodes
Output Cables	Solar Cable with MC4 interconnection

TEMPERATURE CHARACTERISTICS

CHARACTERISTICS	UNIT	VALUES
Voc Temperature Coefficient	%/°C	- 0.33
ISC Temperature Coefficient	%/°C	0.058
Power Temperature Coefficient	%/°C	- 0.43
Operating Module Temperature	°C	- 40 TO + 85
NOCT	°C	46
Fire Classification		C

* Temperature Coefficient May Vary ± 3%

ELECTRICAL CHARACTERISTICS

STC	UNITS	280W	285W	290W	295W	300W
Maximum System Voltage	Vdc	1000	1000	1000	1000	1000
Open Circuit Voltage (Voc)	Voc	44.63	44.76	44.9	45	45.2
Short Circuit Current (Isc)	Isc	8.32	8.45	8.57	8.65	8.73
Rated voltage @ maximum power	Vmpp	35.58	35.9	36.12	36.25	36.41
Rated current @ maximum power	Imp	7.87	7.94	8.03	8.14	8.24
Rated Maximum Power @ STC	PMAX	280	285	290	295.075	300.018
Maximum Series Fuse	[A]	15	15	15	15	1000
Module Efficiency (%)	η'	14.4	14.7	14.9	15.2	15.4

STC: Irradiance 1000 w/m², AM : 1.5, T_C : 25 °C

WARRANTY	VALUES
Power Output	12 Years 90% of Minimum Power Output 25 Years 80% of Minimum Power Output
Product	10 Years

PACKAGING	
Container Capacity	20 Feet (220) Panels Each Pallet contains 40 Feet (484) Panels (22) Modules

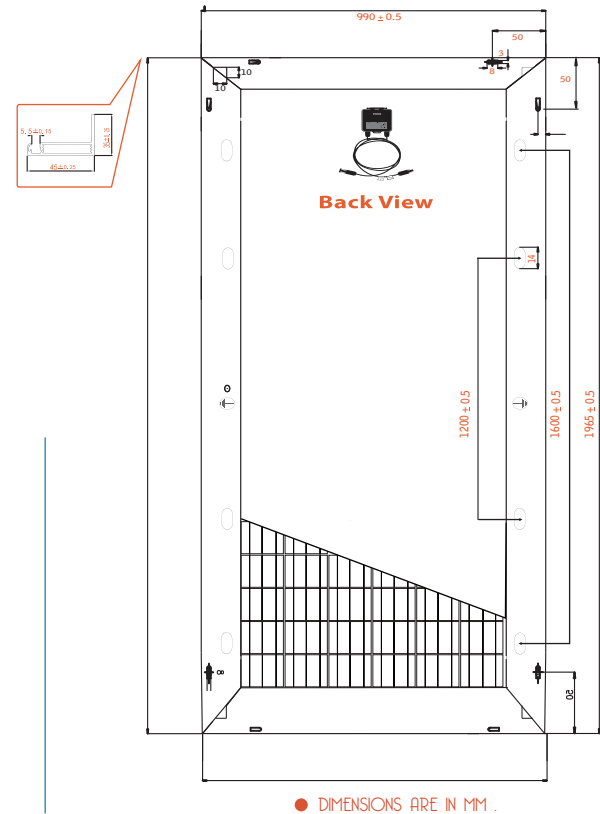
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PV MODULE



DIMENSIONS AND WEIGHT	VALUES
Dimensions [mm]	1965 x 990 x 45
Weight [kg]	~ 22.9
Pallet Dimensions [mm]	2208 x 1138 x 1090

IV - CURVE

