

# Product PS-M72

## MONO-CRYSTALLINE MODULE

### (300/305/310/315/320)w



**Philadelphia**  
**Solar**  
Delivering Clean Energy Solutions

#### PHILADELPHIA SOLAR MODULES

Philadelphia mono-crystalline solar modules with maximum power of **(320 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

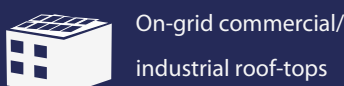
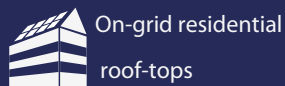
- Optimum maximum conversion efficiency.
- Positive Power tolerance up to 3% extra output.
- High Transparency - low iron tempered solar glass increase energy yield.
- Produced Under systematic quality control covering all processes and check points.
- Fast and Easy Installation.
- Anodized Aluminum Frame for better corrosion resistance.
- Excellent wide variety of solar output modules.



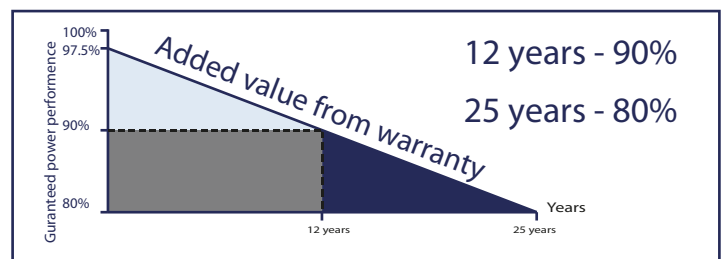
#### BENEFITS

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

#### APPLICATIONS



#### Linear Performance Warranty



AMMAN - JORDAN

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### (300/305/310/315/320)w

## Mechanical Characteristics

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

## Temperature Characteristics

	UNIT	VALUES
Voc Temperature Coefficient	%/C°	-0.36
Isc Temperature Coefficient	%/C°	0.02
Power Temperature Coefficient	%/C°	-0.48
Operating Module Temperature	C°	-40 To +85
NOCT	C°	46
Fire Classification		C

\* Temperature coefficient may vary  $\pm 5\%$

## Electrical Characteristics

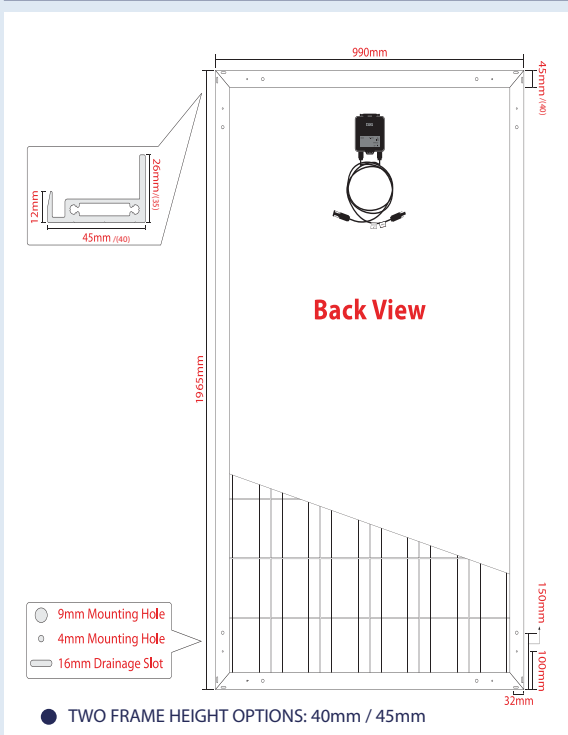
STC	Units	300w	305w	310w	315w	320w
Maximum System Voltage	Vdc	1000	1000	1000	1000	1000
Open Circuit Voltage (Voc)	Voc	44.92	45.5	45.6	46	46.23
Short Circuit Current (Isc)	Isc	8.9	8.95	9.05	9.1	9.18
Rated voltage @ maximum power	Vmpp	35.8	36.23	36.3	36.34	36.37
Rated current @ maximum power	Impp	8.38	8.42	8.54	8.67	8.8
Rated Maximum Power @ STC	P <sub>MAX</sub>	300	305	310	315	320
Maximum Series Fuse	[A]	15	15	15	15	15
Module Efficient [%]	$\eta'$	15.4	15.7	16	16.2	16.4

STC: Irradiance 1000 w/m<sup>2</sup>, AM : 1.5, T<sub>C</sub>: 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 /(250) 40 Feet 484 Panels /(550)	Each Pallet contains 22 (25) Modules

## PV Module



DIMENSIONS and WEIGHT	VALUES
Dimensions [mm]	1965x 990x 45 or (40)
Weight [kg]	~ 23.2
Pallet Dimensions [mm]	2208 x 1138 x 1090

## IV - CURVE

