

Product PS-P60 (Black)

MULTI-CRYSTALLINE MODULE

(230/235/240/245/250)w










Philadelphia
Solar
Delivering Clean Energy Solutions

PHILADELPHIA SOLAR MODULES

Philadelphia multi-crystalline solar modules with maximum power of **(250 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



On-grid residential
roof-tops



On-grid commercial/
industrial roof-tops



Solar Power plants



Off-grid systems

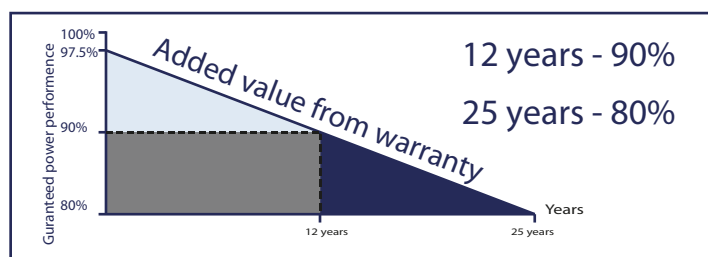


IEC 61215
IEC 61730

www.tuv.com
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Linear Performance Warranty



AMMAN - JORDAN

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Mechanical Characteristics

MODULE COMPONENTS	VALUES
Solar Cells per Module	60 (6 x 10) in series
Cell Type	Grade "A" - Multi-crystalline silicon, 156 x 156 mm ²
Front Surface	Low Iron Tempered 3.2mm 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°	-0.363
Isc Temperature Coefficient	%/C°	0.071
Power Temperature Coefficient	%/C°	-0.369
Operating Module Temperature	C°	-40 To +85
NOCT	C°	46
Fire Classification		C

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

Electrical Characteristics

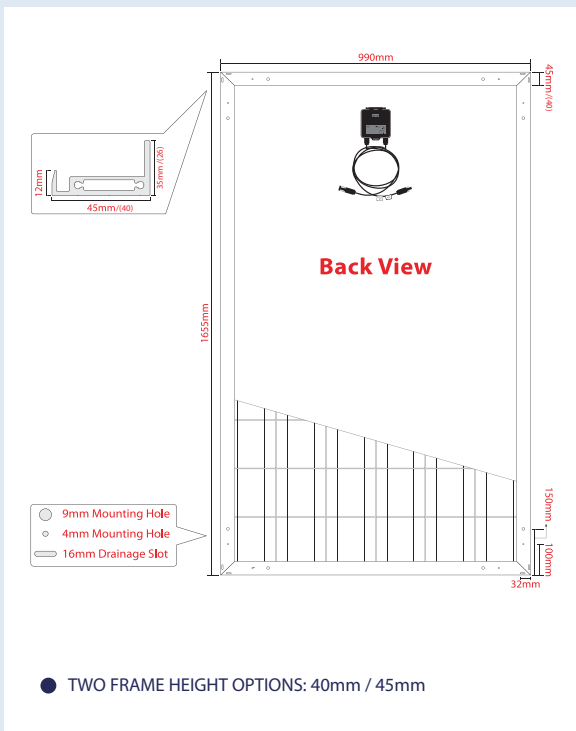
STC	Units	230w	235w	240w	245w	250w
Maximum System Voltage	Vdc	1000	1000	1000	1000	1000
Open Circuit Voltage (Voc)	Voc	36.72	36.72	37.05	37.7	37.99
Short Circuit Current (Isc)	Isc	8.21	8.28	8.32	8.51	8.82
Rated voltage @ maximum power	Vmpp	29.84	30.02	30.08	30.21	30.42
Rated current @ maximum power	Impp	7.71	7.83	7.98	8.11	8.22
Rated Maximum Power @ STC	PMAX	230	235	240	245	250
Maximum Series Fuse	[A]	15	15	15	15	15
Module Efficient [%]	η'	14.02	14.32	14.63	14.93	15.24

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 264 Panels /(300) 40 Feet 616 Panels /(700)	Each Pallet contains 22 (25) Modules

PV Module



DIMENSIONS and WEIGHT	VALUES
Dimensions [mm]	1655 x 990 x 45 or (40)
Weight [kg]	~ 19.8
Pallet Dimensions [mm]	1698 x 1138 x 1090

