

PS-M60

MONO-CRYSTALLINE MODULE

255-300 W



Philadelphia Solar
Delivering Clean Energy Solutions

FEATURES



Positive power tolerance up to 3% extra output.



Excellent low light performance.



Salt mist and ammonia resistant to endure coastal and agricultural environments.



Excellent high mechanical loads, certified to withstand high wind load (2400 pa) and snow load (5400 pa).



100% EL (Electroluminescence) in-line inspection.



PID resistant.

PHILADELPHIA SOLAR PV MODULES

Philadelphia Solar's poly-crystalline 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.

BENEFITS

- Outstanding technical support.
- Per and after sales-service.
- 10 years warranty on material and workmanship .
- 25 years linear performance warranty.
- Marketing support to official distributors.
- Customized mounting solutions.

APPLICATIONS



On-Grid Residential
Roof-Tops



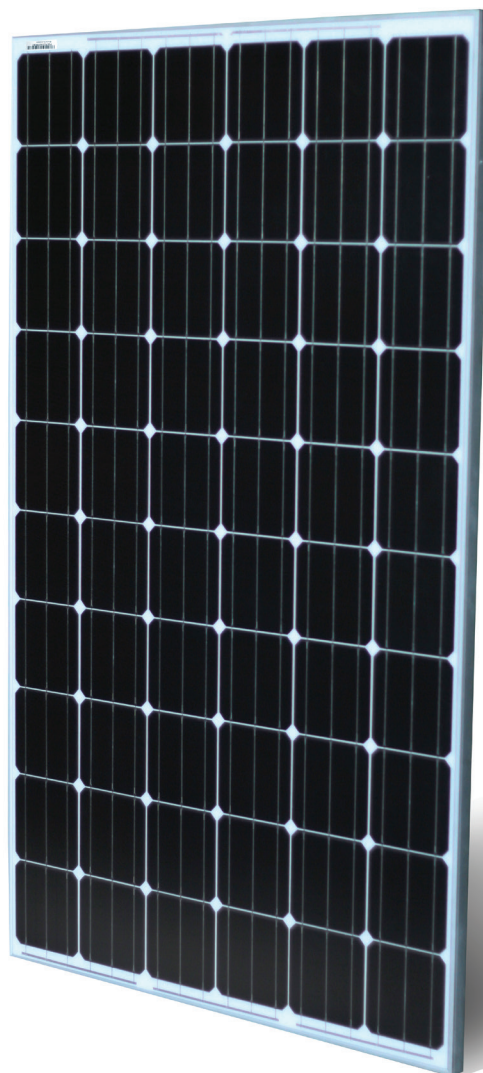
On-Grid Commercial/
Industrial Roof-Tops



Off-Grid Systems
(Including Lighting Systems)



Solar Power Plants



CERTIFICATES



IEC 61215
IEC 61730
Regular Production
Surveillance
www.tuv.com
ID 1111209111



Salt Mist
Resistance
Regular Production
Surveillance
www.tuv.com
ID 1111209532



Ammonia
Resistance
Regular Production
Surveillance
www.tuv.com
ID 1111209531



PID Resistance
Regular Production
Surveillance
www.tuv.com
ID 1111209533



LINEAR PERFORMANCE WARRANTY



PS-M60

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ELECTRICAL CHARACTERISTICS

Characteristics (STC)	255W	260W	265W	270W	275W	280W	285W	290W	295W	300W
Open Circuit Voltage - Voc (V)	37.90	38.05	38.21	38.28	38.36	38.55	38.70	38.81	39	39.2
Short Circuit Current - Isc (A)	9.05	9.13	9.16	9.20	9.25	9.35	9.40	9.48	9.6	9.74
Maximum Power Voltage - Vmpp (V)	30.27	30.49	30.74	31.10	31.44	31.86	32.10	32.37	32.49	32.65
Maximum Power Current - Imp (A)	8.43	8.55	8.65	8.69	8.75	8.79	8.88	8.96	9.08	9.19
Maximum Power - Pmax (W)	255	260	265	270	275	280	285	290	295	300
Module Efficiency - η (%)	15.56	15.87	16.17	16.48	16.78	17.09	17.39	17.70	18	18.31

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C). Power measurement uncertainty $\pm 3\%$

MATERIAL CHARACTERISTICS

Characteristics	Value
Cells per Module	60
Cell Type	Grade A - Mono-Crystalline Silicon, 156.75x156.75
Front Surface	Anti-Reflective Coated Tempered 3.2mm Glass
Encapsulant	PID Free EVA
Back Cover	Backsheet
Frame	Anodized Aluminum
Junction Box	IP67, 3 Bypass Diodes
Connector	Solar Cables with MC4 interconnection
Fire Classification	C

THERMAL CHARACTERISTICS

Characteristics	Value
Voltage Temperature Coefficient (%/°C)	- 0.33
Current Temperature Coefficient (%/°C)	+ 0.05
Power Temperature Coefficient (%/°C)	- 0.41
NOCT (°C)	46 \pm 2

PACKAGING

Physical Characteristics	Value
Module Dimensions (mm)	1655 x 990 x 40
Module Weight (kg)	18
Pallet Dimensions (mm)	1700 x 1140 x 1130
Modules per Pallet	25
Container Capacity	Value
20 Feet Container	300 Modules
40 Feet High-Cube Container	700 Modules

OPERATING CONDITIONS

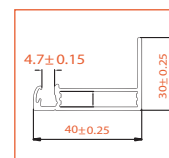
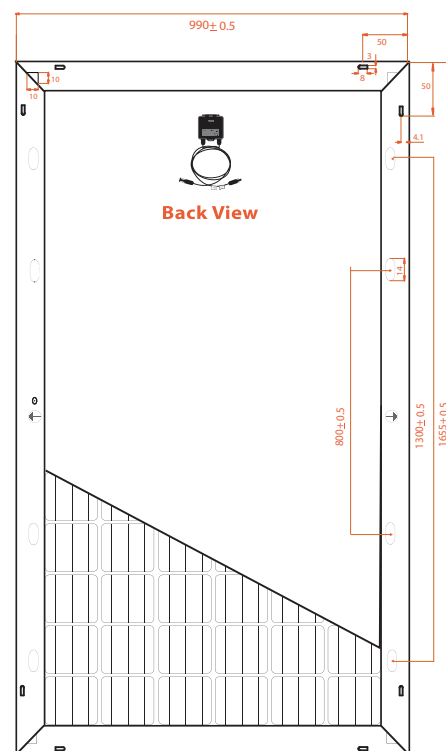
Maximum System Voltage - Vmax (V)	1000
Maximum Series Fuse (A)	15
Operating Temperature Range (°C)	IEC: -40 to + 85 / UL: -40 to + 90

WARRANTY

Product	10 Years
Power Output	12 Years; 90% of Power Output 25 Years; 80% of Power Output

- Datasheet is subjected to changes without prior notice, always obtain the most recent version of the datasheet.
- Caution: For professional use only, the installation and handling of PV modules and cleaning modules require professional skills and should only be performed by qualified professionals, please read the Installation and Operation Manual before using the modules, also Cleaning Guidelines.

PS-M60 Dimensions



● DIMENSIONS ARE IN MM.

IV - CURVE

