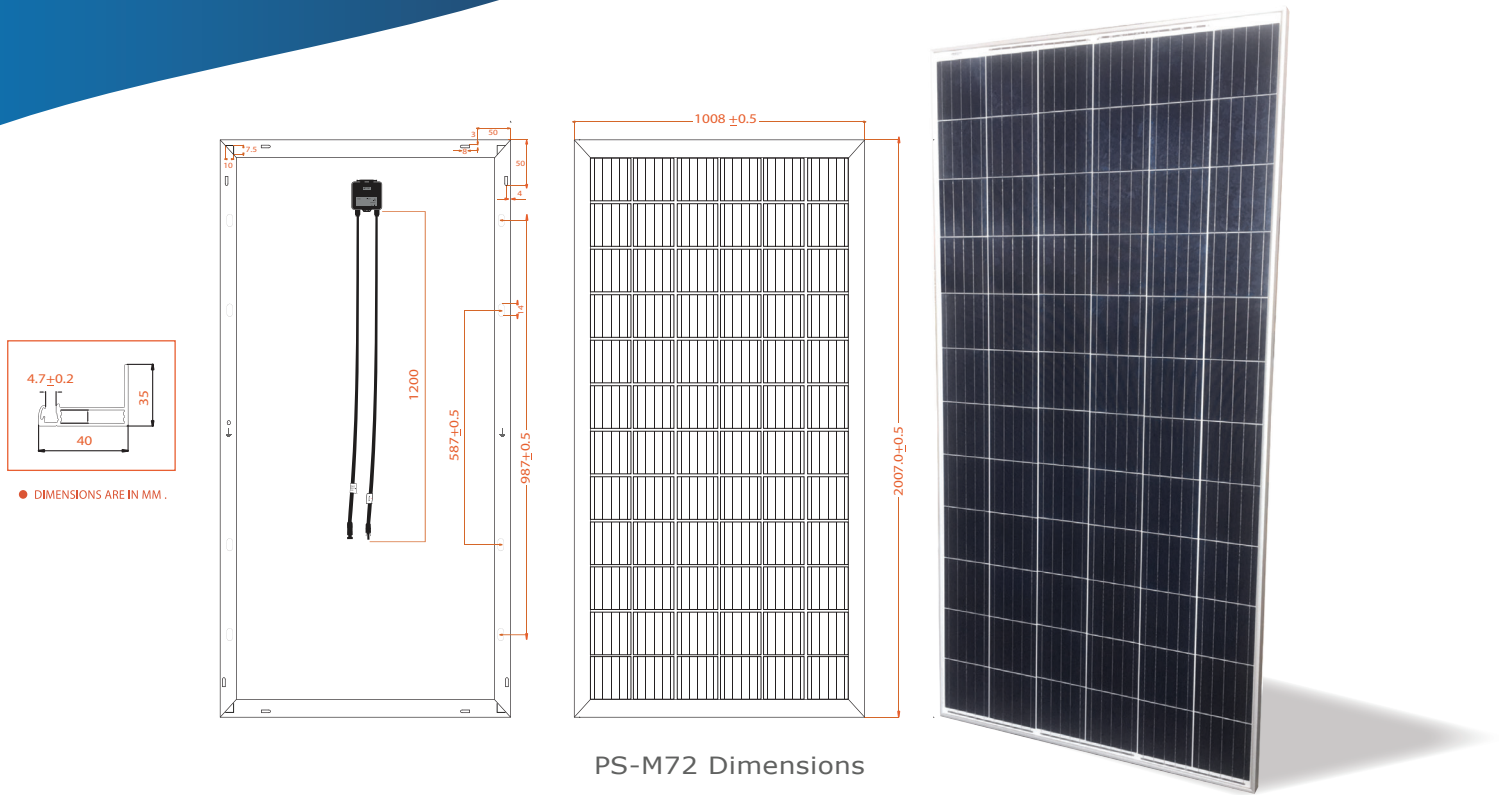


PS-M72-(390-405W)

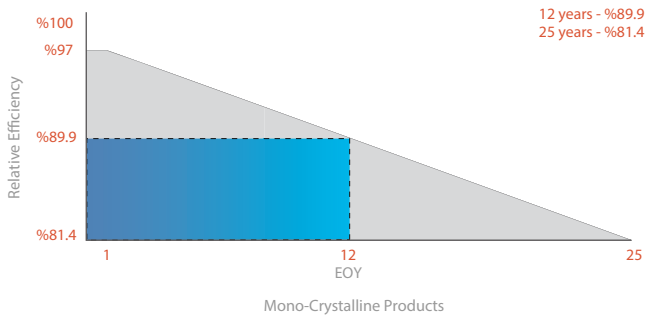
Mono PERC Crystalline Module



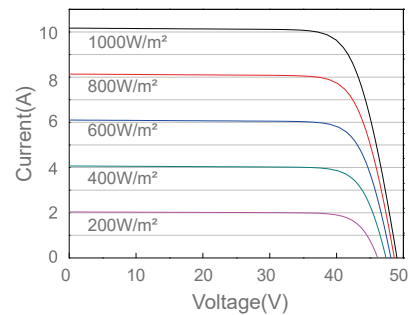
PS-M72 Dimensions

Philadelphia Solar's Mono-Crystalline modules with power up to 405 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.

LINER PERFORMANCE WARRANTY



IV - CURVE M72-390W



Certificates

- Bankability Report DNV GL



ELECTRICAL CHARACTERISTICS	390W	395W	400W	405W
Characteristics (STC)	STC	STC	STC	STC
Open Circuit Voltage - Voc (V)	49.40	49.72	50.00	50.32
Short Circuit Current - Isc (A)	10.20	10.24	10.30	10.35
Maximum Power Voltage - Vmpp (V)	40.82	41.12	41.38	41.70
Maximum Power Current - Impp (A)	9.56	9.61	9.67	9.72
Maximum Power - Pmax (W)	390	395	400	405
Module Efficiency - η' (%)	19.3	19.6	19.8	20.0







Values at Standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000 W/m², Cell Temperature °25C).

MATERIAL CHARACTERISTICS		PACKAGING	
Characteristics	Value	Physical Characteristics	Value
Cells per Module	72	Module Dimensions (mm)	2007 x 1008 x 40
Cell Type	Grade A - Mono PERC Crystalline Silicon, 158.75X158.75mm	Module Weight (kg)	23
Front Surface	Anti-Reflective Coated Tempered 3.2 mm Glass	Pallet Dimensions W.D.H (mm)	2035 x 1140 x 1150
Encapsulant	PID Free EVA	Modules per Pallet	27
Back Cover	Backsheet	Container Capacity	Value
Frame	Anodized Aluminum	20 Feet Container	270 Modules
Junction Box	IP 68, 3 Bypass Diodes	40 Feet High-Cube Container	594 Modules
Connector and Cable	MC4 interconnection, 1.2-m Cables (Can be Customized)		
Fire Classification	Type I		

THERMAL CHARACTERISTICS		OPERATING CONDITIONS	
Characteristics	Value		
Voltage Temperature Coefficient β_{voc} (%/°C)	-0.30	Maximum System Voltage - Vmax (V)	1500
Current Temperature Coefficient α_{isc} (%/°C)	+0.06	Maximum Series Fuse (A)	20
Power Temperature Coefficient γ_{Pmp} (%/°C)	-0.39	Operating Temperature Range (°C)	IEC: -40 to +85 UL: -40 to +90
NOCT (°C)	45±2		

WARRANTY	
Product	12 Years
Power Output	12 Years; 89.9 % of Power Output 25 Years; 81.4 % of Power Output

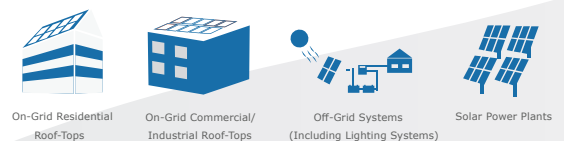
FEATURE

-  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).
-  In-line and post EL (Electroluminescence) machines.
-  PID resistant.

BENEFITS

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

APPLICATIONS



- Power measuring tolerance: ± %3, other measurements tolerances: ± %5
- 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.