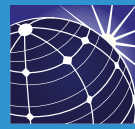


PS-M36s

MONO-CRYSTALLINE MODULE

100-110W



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 mono-crystalline modules with maximum power of **110Wp** 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



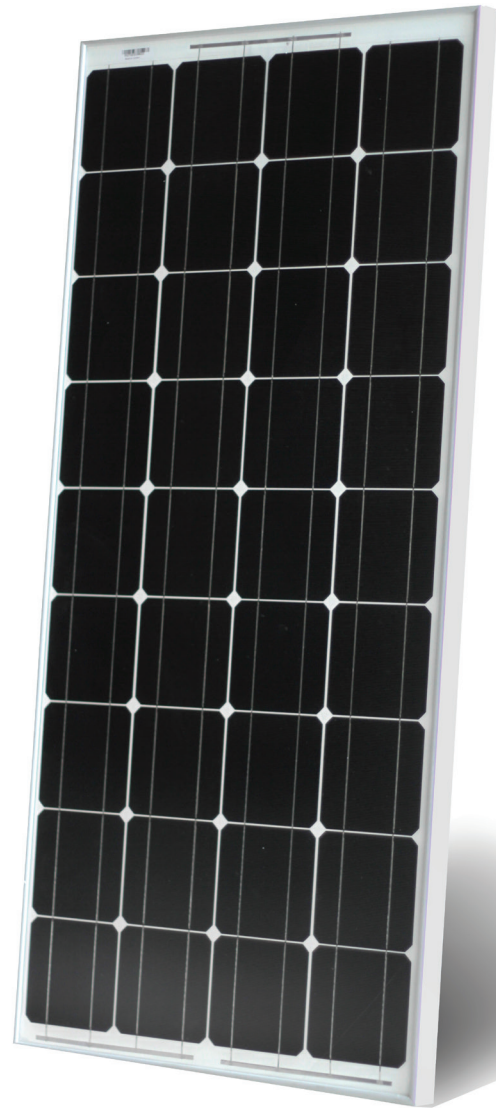
On-Grid Commercial/
Industrial Roof-Tops



Off-Grid Systems
(Including Lighting Systems)



Solar Power Plants



CERTIFICATES



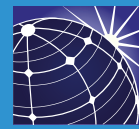
LINEAR PERFORMANCE WARRANTY



PS-M36s

MONO-CRYSTALLINE MODULE

100-110W



Philadelphia Solar
Delivering Clean Energy Solutions

ELECTRICAL CHARACTERISTICS

Characteristics (STC)	100W	105W	110W
Open Circuit Voltage - Voc (V)	22.54	22.58	22.68
Short Circuit Current - Isc (A)	5.97	6.20	6.41
Maximum Power Voltage - Vmpp (V)	18.78	18.81	18.90
Maximum Power Current - Imp (A)	5.34	5.59	5.83
Maximum Power - Pmax (W)	100	105	110
Module Efficiency - η (%)	15.10	15.85	16.61

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	36
Cell Type	Grade A - Mono-Crystalline Silicon, 125x125mm
Front Surface	Anti-Reflective Coated Tempered 3.2mm Glass
Encapsulant	PID Free EVA
Back Cover	Backsheet
Frame	Anodized Aluminum
Junction Box	IP67, 2 Bypass Diodes
Connector	Solar Cables with MC4 interconnection
Fire Classification	C

THERMAL CHARACTERISTICS

Characteristics	Value
Voltage Temperature Coefficient (%/°C)	- 0.35
Current Temperature Coefficient (%/°C)	+ 0.04
Power Temperature Coefficient (%/°C)	- 0.45
NOCT (°C)	47 \pm 2

PACKAGING

Physical Characteristics	Value
Module Dimensions (mm)	1215 x 545 x 40
Module Weight (kg)	8
Pallet Dimensions (mm)	1240 x 1150 x 690
Modules per Pallet	25
Container Capacity	Value
20 Feet Container	600 Modules
40 Feet High-Cube Container	1350 Modules

OPERATING CONDITIONS

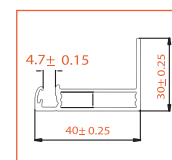
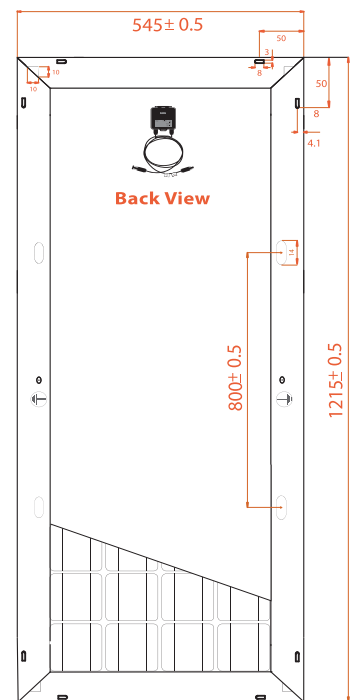
Maximum System Voltage - Vmax (V)	1000
Maximum Series Fuse (A)	15
Operating Temperature Range (°C)	IEC: -40 to + 85 / UL: -40 to + 90

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-M36s Dimensions



● DIMENSIONS ARE IN MM.

IV - CURVE

