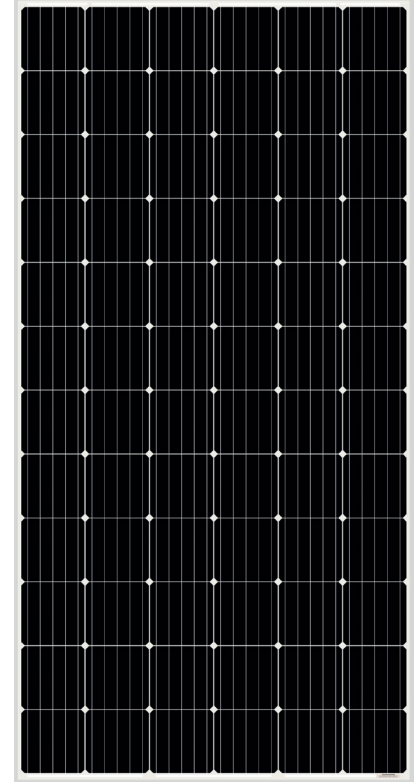
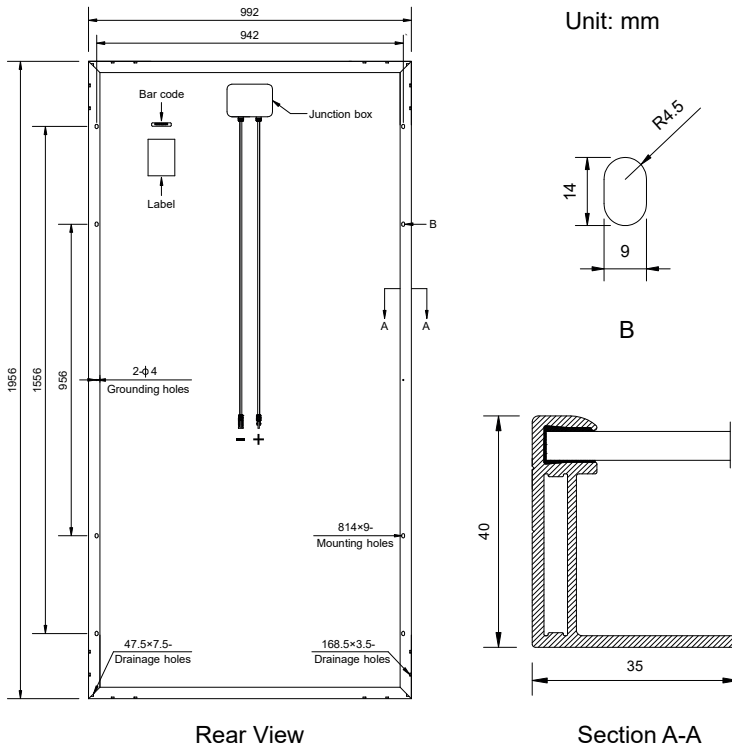


PS-72-(350W-390W)

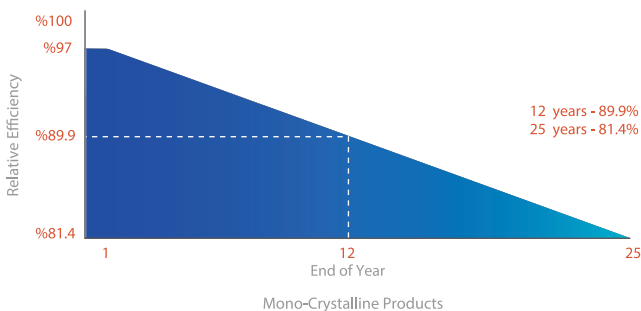
Mono PERC Crystalline Module




Module Drawings



Philadelphia Solar's Mono-Crystalline modules with power up to **390 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.

Linear Performance Warranty



-  12 Year Product Warranty
-  25 Year Linear Power Warranty
-  Only -0.65% Annual Degradation

Certificates

- Bankability Report DNV GL



ELECTRICAL CHARACTERISTICS AT STC									
Maximum Power (P_{max})	350W	355W	360W	365W	370W	375W	380W	385W	390W
Open Circuit Voltage (V_{OC})	47.2V	47.4V	47.6V	47.8V	48.0V	48.2V	48.4V	48.6V	48.8V
Short Circuit Current (I_{SC})	9.57A	9.64A	9.71A	9.78A	9.85A	9.92A	9.99A	10.06A	10.13A
Voltage at Maximum Power (V_{mp})	38.6V	38.8V	39.0V	39.2V	39.4V	39.6V	39.8V	40.0V	40.2V
Current at Maximum Power (I_{mp})	9.07A	9.15A	9.24A	9.32A	9.40A	9.47A	9.55A	9.63A	9.71A
Module Efficiency (%)	18.04	18.30	18.55	18.81	19.07	19.33	19.58	19.84	20.10
Operating Temperature	-40°C to +85°C								
Maximum System Voltage	1000V DC/1500V DC								
Fire Resistance Rating	Type 1(in accordance with UL 1703)/Class C(IEC 61730)								
Maximum Series Fuse Rating	15A								

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT									
Maximum Power (P_{max})	261W	264W	268W	272W	276W	279W	283W	287W	291W
Open Circuit Voltage (V_{OC})	43.7V	43.9V	44.1V	44.3V	44.5V	44.7V	44.9V	45.1V	45.3V
Short Circuit Current (I_{SC})	7.75A	7.81A	7.87A	7.92A	7.98A	8.04A	8.09A	8.15A	8.21A
Voltage at Maximum Power (V_{mp})	35.5V	35.7V	35.9V	36.1V	36.3V	36.5V	36.7V	36.9V	37.1V
Current at Maximum Power (I_{mp})	7.36A	7.40A	7.47A	7.54A	7.61A	7.65A	7.72A	7.78A	7.85A







NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS	
Cell type	Monocrystalline 6inch
Number of cells	72 (6x12)
Module dimensions	1956x992x40mm (77.01x39.06x1.57inches)
Weight	21kg (46.3lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm ² (0.006inches ²), 1000mm (39.37inches)
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS	
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.38%/°C
Temperature Coefficients of V_{OC}	-0.29%/°C
Temperature Coefficients of I_{SC}	0.052%/°C

PACKAGING	
Standard packaging	27pcs/pallet
Module quantity per 20' container	270pcs
Module quantity per 40' container	648pcs(GP)/708pcs(HQ)

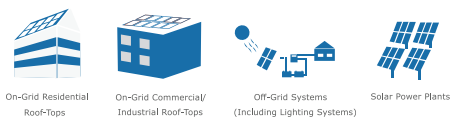
FEATURE

-  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

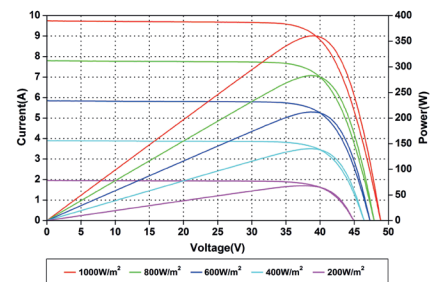
- Outstanding technical support.
- Pre and after sales-service.
- Marketing support to official distributors.
- Customized mounting solutions.

Applications

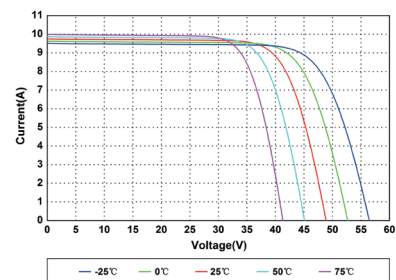


- Power measuring tolerance: ± %3, other measurements tolerances: ± %5
- Datasheet is subjected to changes without prior notice, always obtain the most recent version of the datasheet.
- Caution: For professional use only, the installation and handling of PV modules and cleaning modules require professional skills and should only be performed by qualified professionals, please read the Installation and Operation Manual before using the modules, also Cleaning Guidelines.

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures