iP250P

250W POLYCRYSTALLINE SOLAR PANEL

INOVIA

INOVIA designs, manufactures, installs and maintains high performance photovoltaic products that convert sunlight into electricity for residential, commercial, and utility-scale power generation.

iP250P is a triple PID-resist polycrystalline solar panel that provides high power output more than 250W with embedded anti-reflective and anti-soiling surface. It can provide outstanding performance in low-light irradiance environment.

- Highly reliable due to stringent quality control
  - Over 30 hours in-house tests (UV, TC, HF, and many more)
  - In-house testing goes well beyond certification requirements
- High power output of more than 250W and module efficiency up to 15.5%
- Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa
- High performance under low light conditions cloudy days, mornings and evenings
- Approved original MC4 Photovoltaic connector used with highest reliability
- Embedded RFID tag for more flexible management and maintenance.
- Manufactured according to International Quality and Environment Management System Standards ISO9001:2008, ISO14001:2004
- Positive power tolerance 0~+5w
- TÜV NORD certified panel for high salt and ammonia resistance.

Certification

UL 1703
UL 790 Class A fire rating
ASTM D3161 Class F
IEC 61215
California CEC Listed
CE
prEN15601
BS 476-3: 2004, AA rating

Warranty

5 year product warranty
25 year linear power output warranty
80% output power after 25 year

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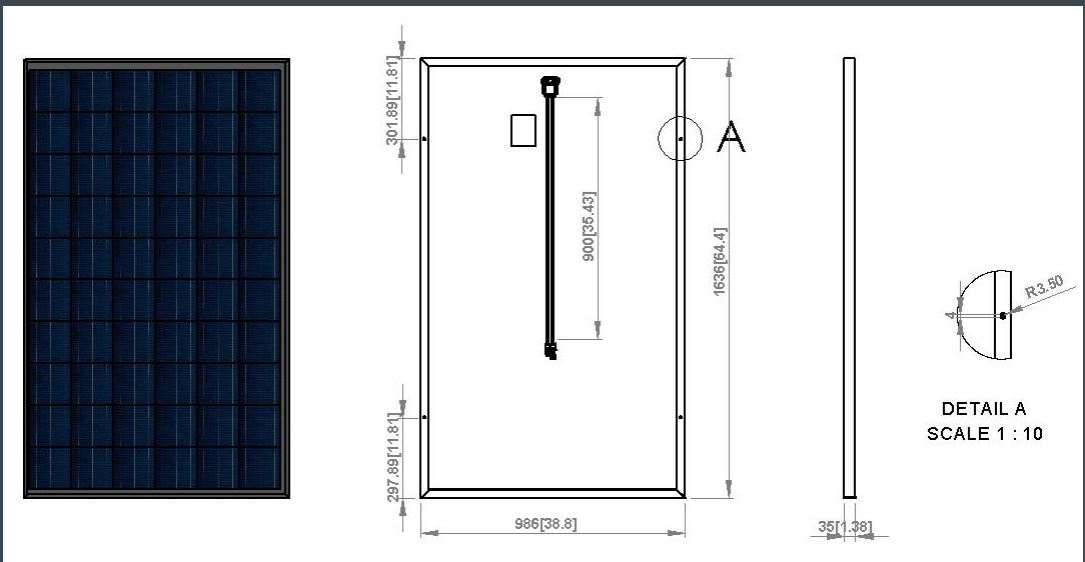

MECHANICAL CHARACTERISTICS

Outside Dimensions	1636x986x35mm / 64.4x39x1.4inch
Weight	18.5 Kg / 40.8 lbs (approx)
Cell Type	Polycrystalline
Cell Size	156x156mm / 6.14x6.14inch
Number Of Cells	60 in series
Cell Manufacturer	SunPower, Sharp, BOSCH, 4BB
Front	tempered glass (EN 12150)
Bypass Diode	3 Per panel
Junction Box	IP67
Connectors	MC4-EVO 3
Cables	$4mm^2$/12 AWG Class II double insulated
Cable Length	900mm – 35.43inch
Load Rating	19.7 kg/m^2 - 43.45 lbs/m^2
Front Load (Snow + Wind)	5400 Pa
Back Load (Wind)	2400 Pa
Frame Material	Clear anodized aluminum
Operating Temperature	-40 to +90˚C
Application Class	Class A
Packaging	26 Per Pallet

ELECTRICAL CHARACTERISTICS

Standard Test Conditions: 25°C, 1kW/m^2, AM 1.5

Maximum Power (Pmax)	250W
Maximum Power Voltage (Vmp)	30.5V
Maximum Power Current (Imp)	8.20A
Open Circuit Voltage (Voc)	37.6V
Short Circuit Current (Isc)	8.81A
Maximum System Voltage	1000 VDC (IEC)
Series Fuse Rating	15 A
Performance Tolerance	± 3%
Cell efficiency	17.1%
Module Efficiency	15.5%
Power Temp. Coefficient (Ptmp)	-0.44%/˚C
Voltage Temp. Coefficient (Vtoc)	-0.34%/˚C
Normal Operating Cell Temp. (NOCT)	45±2˚C
Power Tolerance	-0~+5w

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