

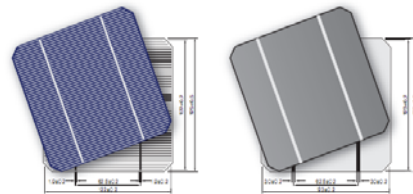


ZNSHINESOLAR Photovoltaic Modules



190W Mono-crystalline PV Module <Model No. ZX190(37)MS>

Mono 5"(R165)

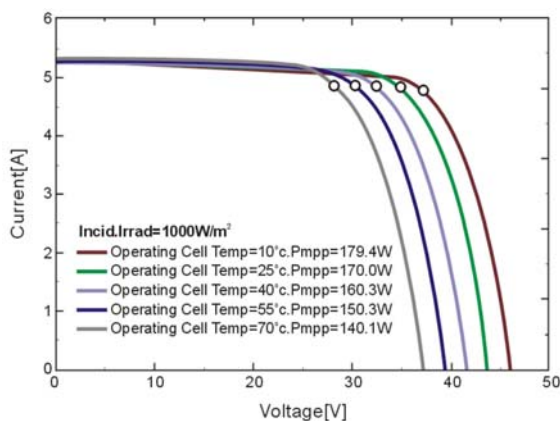


- Solar Cell: High efficiency and **small angle** solar cells ensure high performance of solar module and create maximum power output.
- Low Iron Tempered Glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- Aluminum Frame: Without screw, corner connection. 10 holes on the frame can be installed easily.
- Superior Junction Box: Multi function junction box with water proof capabilities.
- Long Lifespan: >= 25 years.
- Power Tolerance: +/-3%.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effect by geology.
- The certificate issued by international authority: CE, TUV, IEC.

PV Module Characteristics

Electrical Characteristics	Physical Characteristics	Loading Qty	Temperature Coefficients	Absolute Maximum Limits
<ul style="list-style-type: none"> ◆ Pmax: 190W ◆ Vmp: 37.1V ◆ Imp: 5.15A ◆ Voc: 44.85V ◆ Isc: 5.54A ◆ Eff: 14.9% 	<ul style="list-style-type: none"> ◆ Cell Merterial: mono-crystalline 125*125 (R165) ◆ Cell Array: 6*12/125*125 ◆ Dimensions: 1580mm*808mm*45mm ◆ Weight: 16KGS 	<ul style="list-style-type: none"> 20"GP 264PCS 40"GP 672PCS 40"HQ 728PCS 	<ul style="list-style-type: none"> ◆ Current temperature coefficients: 0.0241 (%/°C) ◆ Voltage temperature coefficients: -0.2904 (%/°C) ◆ Power temperature coefficients: -0.4183 (%/°C) 	<ul style="list-style-type: none"> ◆ Max System Voltage: 1000V DC ◆ Operating Temperature: -40°C ~+85°C ◆ Noct(DEGC): 45°C ±3°C

IV Curves



Basic Dimension Drawing

