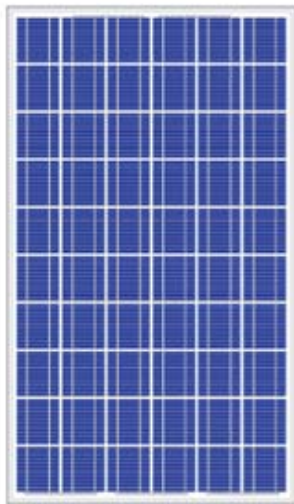


## ZNSHINESOLAR Photovoltaic Modules



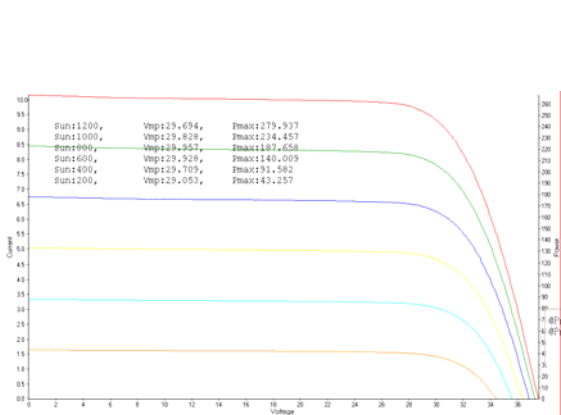
### 230W Poly-crystalline PV Module <Model No.ZX230(30)P>

- Solar Cell: High efficiency 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:  $\geq 25$  years.
- Tolerance:  $\pm 3\%$ .
- 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"> <li>◆ Pmax: 230W</li> <li>◆ Vmp: 30.4V</li> <li>◆ Imp: 7.57A</li> <li>◆ Voc: 38.0V</li> <li>◆ Isc: 8.18A</li> <li>◆ Eff: 14.05%</li> </ul>	<ul style="list-style-type: none"> <li>◆ Cell Merterial: poly-crystalline 156*156</li> <li>◆ Cell Array: 6*10/156*156</li> <li>◆ Dimensions: 1650mm*992mm*50mm</li> <li>◆ Weight: 21.5KGS</li> </ul>	<ul style="list-style-type: none"> <li>20"GP 228PCS</li> <li>40"GP 532PCS</li> <li>40"HQ 616PCS</li> </ul>	<ul style="list-style-type: none"> <li>◆ Current temperature coefficients: 0.0241 (%/°C)</li> <li>◆ Voltage temperature coefficients: -0.2904 (%/°C)</li> <li>◆ Power temperature coefficients: -0.4183 (%/°C)</li> </ul>	<ul style="list-style-type: none"> <li>◆ Max System Voltage: 1000V DC</li> <li>◆ Operating Temperature: -40°C ~ +85°C</li> <li>◆ Noct(DEGC): 45°C <math>\pm 3</math>°C</li> </ul>

### IV Curves



### Basic Dimension Drawing

