**GCL-P6/72**
HIGH EFFICIENCY MULTICRYSTALLINE MODULE
**GCL-P6/72 310-330 Watt**

**330\(^{w}\)**
MAXIMUM POWER OUTPUT

**17.0\%**
MAXIMUM MODULE EFFICIENCY

**0\(^{\circ}\)～+5\(^{w}\)**
POWER OUTPUT GUARANTEE

**Trust GCL to Deliver Reliable Performance Over Time**

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2-68)
- Long term reliability tests
- 2*100% EL inspection ensuring defect-free modules

**LINEAR PERFORMANCE WARRANTY**

<table>
<thead>
<tr>
<th>Years</th>
<th>Industry standard</th>
<th>GCL SI standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>100%</td>
<td>97.5%</td>
</tr>
<tr>
<td>10</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>15</td>
<td>80.7%</td>
<td>80.7%</td>
</tr>
<tr>
<td>20</td>
<td>75%</td>
<td>75%</td>
</tr>
<tr>
<td>25</td>
<td>70%</td>
<td>70%</td>
</tr>
</tbody>
</table>

Additional value from GCL SI's linear warranty

Ideal choice for large scale ground installation

High conversion efficiency due to top quality wafer and advanced cell technology

Selected encapsulating material and stringent production process control ensure product highly PID resistant and snail trails free

Passed sand blowing test, salt mist test and ammonia test; flexible for harsh environments

Optimized system performance by module level current sorting

Special cell process ensures great performance in low irradiance environment

Additional yield and easy maintenance with high transparent self-cleaning glass

According to UL 1703
**GCL-P6/72**

**HIGH EFFICIENCY MULTICRYSTALLINE MODULE**

### ELECTRICAL SPECIFICATION (STC)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Maximum Power Pmax (W)</td>
<td>310</td>
<td>315</td>
<td>320</td>
<td>325</td>
<td>330</td>
</tr>
<tr>
<td>Maximum Power Voltage Vm(V)</td>
<td>37</td>
<td>37.2</td>
<td>37.4</td>
<td>37.6</td>
<td>37.8</td>
</tr>
<tr>
<td>Maximum Power Current Im(A)</td>
<td>8.38</td>
<td>8.47</td>
<td>8.56</td>
<td>8.64</td>
<td>8.73</td>
</tr>
<tr>
<td>Open Circuit Voltage Voc(V)</td>
<td>45.4</td>
<td>45.6</td>
<td>45.8</td>
<td>46</td>
<td>46.2</td>
</tr>
<tr>
<td>Short Circuit Current Isc(A)</td>
<td>8.99</td>
<td>9.08</td>
<td>9.17</td>
<td>9.24</td>
<td>9.33</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>16.0</td>
<td>16.2</td>
<td>16.5</td>
<td>16.7</td>
<td>17.0</td>
</tr>
<tr>
<td>Power Output Tolerance Pm(W)</td>
<td>0 ~ +5</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C).

### ELECTRICAL DATA (NOCT)

| Maximum Power Pmax (W) | 224.45 | 227.14 | 231.2 | 234.61 | 237.71 |
| Maximum Power Voltage Vm(V) | 33.6 | 33.8 | 34.1 | 34.3 | 34.5 |
| Maximum Power Current Im(A) | 6.68 | 6.72 | 6.78 | 6.84 | 6.89 |
| Open Circuit Voltage Voc(V) | 42.2 | 42.4 | 42.5 | 42.7 | 42.9 |
| Short Circuit Current Isc(A) | 7.19 | 7.30 | 7.38 | 7.46 | 7.58 |

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

### MECHANICAL DATA

- **Solar Cells**: Poly 156.75×156.75mm (6 inches)
- **Cell Orientation**: 72 Cells (6×12)
- **Module Dimensions**: 1956×992×35mm (77 × 39.05 × 1.38 inches)
- **Weight**: 22.2 kg
- **Glass**: High transparency solar glass 3.2mm (0.13 inches)
- **Backsheet**: White
- **Frame**: Silver, anodized aluminium alloy
- **J-Box**: IP68 Rated
- **Cables**: 4.0mm² (0.006 inches²), 1200mm (47.2 inches)
- **Connector**: Original MC4 or Compatible
- **Wind Load/ Snow Load**: 2400Pa/6000Pa*

*For more details please check the installation manual of GCLSI

### TEMPERATURE RATINGS

- **Nominal Operating Cell Temperature (NOCT)**: 45 ± 2°C
- **Temperature Coefficient of Pmax**: -0.41%/°C
- **Temperature Coefficient of Voc**: -0.32%/°C
- **Temperature Coefficient of Isc**: +0.055%/°C

### MAXIMUM RATINGS

- **Operational Temperature**: -40~ +85°C
- **Maximum System Voltage**: 1000V DC (IEC)
- **Max Series Fuse Rating**: 15A

### PACKAGING CONFIGURATION

- **Modules per box**: 30 pieces
- **Modules per 40’ HD container**: 720 pieces

### WARRANTY

- **10 years Product Workmanship Warranty**
- **25 years Linear Power Warranty**

(Points refer to GCL's standard warranty for details)

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*Excellent performance under weak light conditions: an irradiation intensity of 200W/m² W/m² (AM1.5, 25 °C), 96.5% or higher of the STC efficiency (1000 W/m²) is achieved.*