GCL-P3/60  
GCL-P3/60H  
Polycrystalline Module  
275-310W

Cell Type  
5BB  
MBB

310W  
Maximum Power Output

18.8%  
Maximum Module Efficiency

0~+5W  
Power Output Guarantee

Company Introduction

GCL System Integration Technology Co. Ltd (002506 Shenzhen Stock) (GCL System) is part of GOLDEN CONCORD Group (GCL) which is an international energy company specializing in clean and sustainable power production. The group, founded in 1990 now employs 30,000 people.

GCL Delivers 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

Additional Insurance Backed by Swiss RE

* Please refer to GCL for details

Linear Performance Warranty

10 Years Product Warranty 25 Years Linear Power Warranty

* Please refer to GCL standard warranty for details
**Electrical Specification (STC)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>275</th>
<th>280</th>
<th>285</th>
<th>290</th>
<th>295</th>
<th>300</th>
<th>305</th>
<th>310</th>
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<tbody>
<tr>
<td>Maximum Power Voltage (Vmp)</td>
<td>31.55</td>
<td>31.90</td>
<td>32.33</td>
<td>32.78</td>
<td>33.23</td>
<td>33.64</td>
<td>34.05</td>
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<td>Maximum Power Current (Imp)</td>
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<td>8.78</td>
<td>8.82</td>
<td>8.85</td>
<td>8.88</td>
<td>8.92</td>
<td>8.96</td>
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<td>Short Circuit Current (Isc)</td>
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<td>9.56</td>
<td>9.67</td>
<td>9.78</td>
<td>9.89</td>
<td>10.00</td>
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<tr>
<td>Open Circuit Voltage (Voc)</td>
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<td>38.60</td>
<td>38.80</td>
<td>39.00</td>
<td>39.20</td>
<td>39.40</td>
<td>39.60</td>
<td>39.80</td>
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<td>Module Efficiency (%)</td>
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<td>17.0</td>
<td>17.3</td>
<td>17.6</td>
<td>17.9</td>
<td>18.2</td>
<td>18.5</td>
<td>18.8</td>
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<td>Power Output Tolerance (%)</td>
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* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

**Electrical Specification (NOCT)**

<table>
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<th>263.75</th>
<th>207.48</th>
<th>211.55</th>
<th>215.06</th>
<th>219.63</th>
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<td>29.10</td>
<td>29.30</td>
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<td>29.80</td>
<td>30.00</td>
<td>30.20</td>
<td>30.50</td>
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<td>36.20</td>
<td>36.40</td>
<td>36.50</td>
<td>36.70</td>
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**Mechanical Data**

- **Solar Cell Type**: Poly 78.38×156.75mm
- **Number of Cells**: 120 Cells (6×20)
- **Dimensions of Module L*W*H (mm)**: 1665×992×35mm (65.55 × 39.05 × 1.38 inches)
- **Weight (kg)**: 18.8kg
- **Glass**: High transparency solar glass 3.2mm (0.13 inches)
- **Backsheet**: White
- **Frame**: Silver, anodized aluminium alloy
- **J-Box**: IP67 Rated
- **Cable**: 4.0mm² (0.006 inches²), 300mm (11.8 inches)
- **Number of diodes**: 3
- **Wind/ Snow Load**: 2400Pa/5400Pa*
- **Connector**: MC4 Compatible

* For more details please check the installation manual of GCLSI

**Temperature Ratings**

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

**Packaging Configuration**

- **Module per box**: 30 pieces
- **Module per 40' container**: 780 pieces

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**Maximum Ratings**

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

**Optional**

- **Connector**: Original MC4

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**Contact Us for More Information**

website: en.gclusi.com  email: gclusisales@gclusi.com

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**GCL-Mercury Series Polycrystalline Module 275-310W**