# GCL-P6/72

## HIGH EFFICIENCY MULTICRYSTALLINE MODULE

**GCL-P6/72 310-330 Watt**

**330W**
MAXIMUM POWER OUTPUT

**17.0%**
MAXIMUM MODULE EFFICIENCY

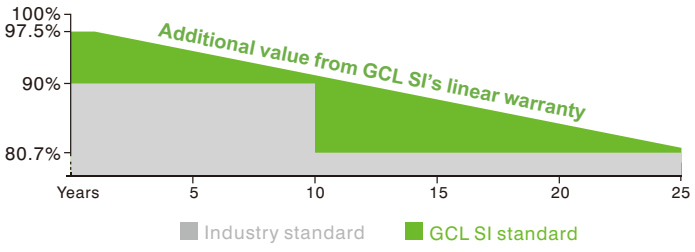
**0~+5W**
POWER OUTPUT GUARANTEE

### Trust GCL to Deliver Reliable Performance Over Time

- World- class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2008, ISO 14001: 2004 and OHSAS: 18001 2007
- 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

10 Years Product Warranty  25 Years Linear Power 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

**Bringing Green Power to Life**

# GCL-P6/72

HIGH EFFICIENCY MULTICRYSTALLINE MODULE

## ELECTRICAL SPECIFICATION (STC)

| TYPE (STC) | GCL-P6/72 310 | GCL-P6/72 315 | GCL-P6/72 320 | GCL-P6/72 325 | GCL-P6/72 330 |
|---|---|---|---|---|---|
| Maximum Power Pmax (W) | 310 | 315 | 320 | 325 | 330 |
| Maximum Power Voltage Vm(V) | 37 | 37.2 | 37.4 | 37.6 | 37.8 |
| Maximum Power Current Im(A) | 8.38 | 8.47 | 8.56 | 8.64 | 8.73 |
| Open Circuit Voltage Voc(V) | 45.4 | 45.6 | 45.8 | 46 | 46.2 |
| Short Circuit Current Isc(A) | 8.99 | 9.08 | 9.17 | 9.24 | 9.33 |
| Module Efficiency (%) | 16.0 | 16.2 | 16.5 | 16.7 | 17.0 |
| Power Output Tolerance Pm(W) | 0~+5 | | | | |

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 $P_{MAX}$ | -0.41%/°C |
| Temperature Coefficient of $V_{oc}$ | -0.32%/°C |
| Temperature Coefficient of $I_{SC}$ | +0.055%/°C |

## MAXIMUM RATINGS

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

## WARRANTY

10 years Product Workmanship Warranty

25 years Linear Power Warranty

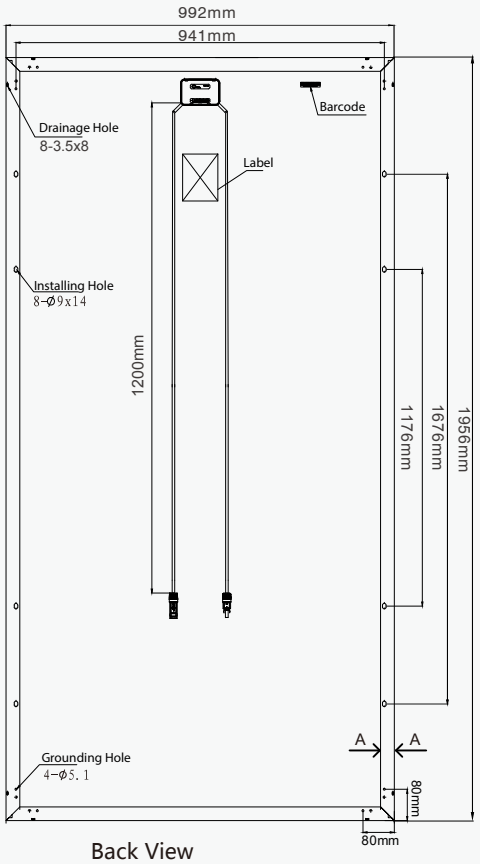
(Please refer to GCL standard warranty for details)

## PACKAGING CONFIGURATION

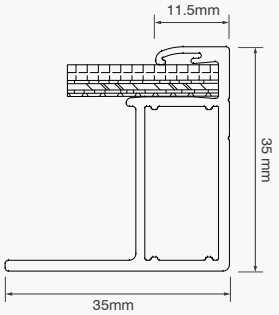
Modules per box: 30 pieces

Modules per 40'HD container: 720 pieces

## MODULE DIMENSION

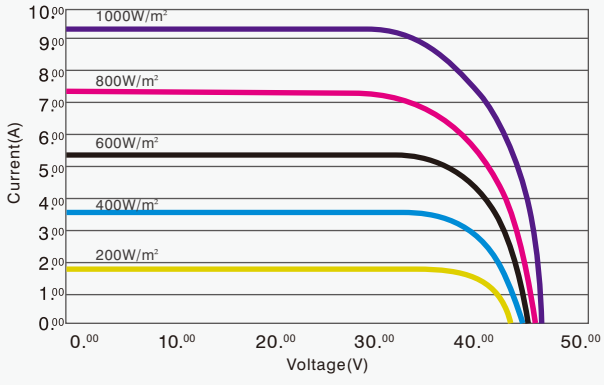



Back View




A-A

## I-V CURVES OF MODULE(330W)




*Excellent performance under weak light conditions: at an irradiation intensity of 200W/m² W/m(AM 1.5, 25 °C), 96.5% or higher of the STC eciency (1000 W/m²) is achieved*

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http://en.gclsi.com

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CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT