

GCL- P3/72

[Sapphire Plus]
HIGH EFFICIENCY MULTICRYSTALLINE MODULE

GCL-P3/72 320-335 Watt

335^W

MAXIMUM POWER OUTPUT

16.9%

MAXIMUM MODULE EFFICIENCY

0~+5^W

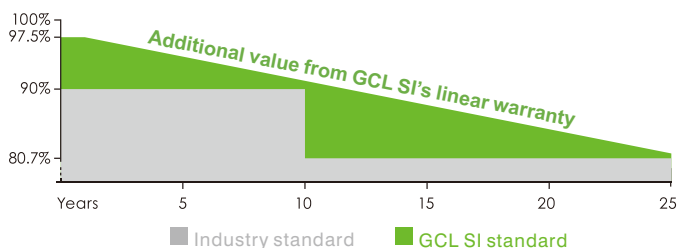
POWER OUTPUT GUARANTEE

Trust GCL to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- 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



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



Special cutting and soldering technology leads to low hotspot risk



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



Optimized system performance by module level current sorting

Additional insurance backed by Swiss RE



Bringing Green Power to Life

GCL-P3/72

HIGH EFFICIENCY MONOCRYSTALLINE MODULE

ELECTRICAL SPECIFICATION (STC)

Parameter	Symbol	320	325	330	335
Maximum Power	P_{max} (W)	320	325	330	335
Maximum Power Voltage	V_m (V)	37.51	37.68	37.97	38.32
Maximum Power Current	I_m (A)	8.53	8.63	8.69	8.74
Open Circuit Voltage	V_{oc} (V)	45.6	45.95	46.18	46.41
Short Circuit Current	I_{sc} (A)	9.03	9.12	9.23	9.31
Module Efficiency	(%)	16.1	16.4	16.6	16.9
Power Output Tolerance	P_m (W)	0~+5			

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

ELECTRICAL DATA (NOCT)

Parameter	Symbol	232.9	236.7	239.8	242.6
Maximum Power	P_{max} (W)	232.9	236.7	239.8	242.6
Maximum Power Voltage	V_m (V)	34.2	34.4	34.6	34.8
Maximum Power Current	I_m (A)	6.81	6.88	6.93	6.97
Open Circuit Voltage	V_{oc} (V)	42.5	42.7	42.9	43.1
Short Circuit Current	I_{sc} (A)	7.16	7.21	7.29	7.35

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

MECHANICAL DATA

Solar Cells	Poly 78×156mm
Cell Orientation	144 Cells (12×12)
Module Dimensions	1945×1020×40mm (77×40×1.57inches)
Weight	21.5kg
Glass	High transparency solar glass 3.2mm (0.13 inches)
Backsheet	White
Frame	Silver, anodized aluminium alloy
J-Box	IP67 Rated
Cables	4.0mm ² (0.016 inches ²), 500mm (19.7 inches)
Connector	Original MC4 or Compatible

*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

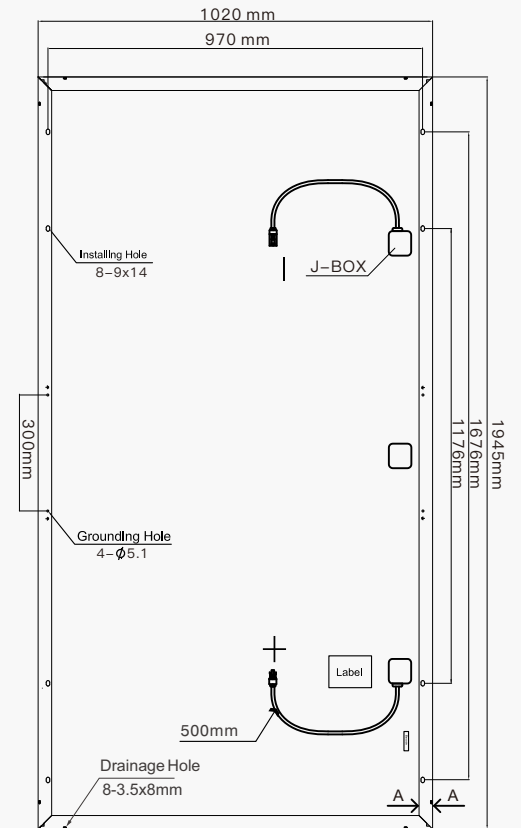
10 years Product Workmanship Warranty
25 years Linear Power Warranty

(Please refer to GCL standard warranty for details)

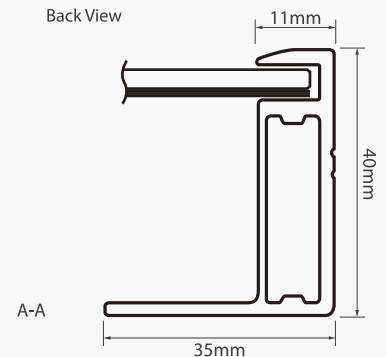
PACKAGING CONFIGURATION

Modules per box: 26 pieces
Modules per 40'HD container: 624pieces

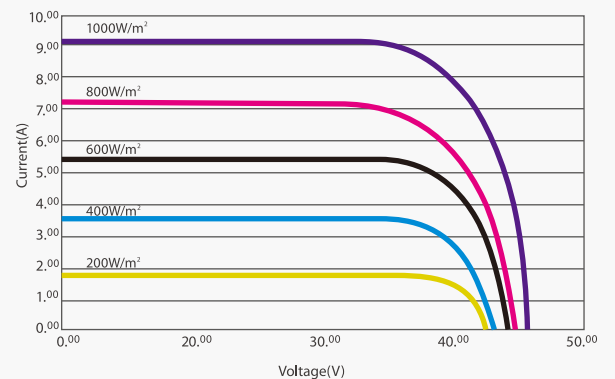
MODULE DIMENSION



Back View



I-V CURVES OF MODULE (320W)



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



Bringing Green Power to Life
<http://en.gclsi.com>

GCL-EN-P3/72-2016-V2.0
CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT
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