



# 72M G1 Bifacial Module

72 Cell Monocrystalline 390W – 405W

## 20.4%

Utilizes the latest high efficiency Monocrystalline PERC cells.

## Stability & Looks

Rugged, double webbed frame design withstands wind, snow, and other mechanical stresses. Framed Glass–Backsheet aesthetic is ideal for high visibility installation.

## Anti-Reflective

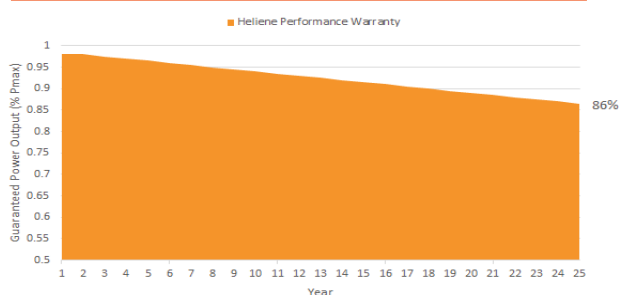
Premium solar glass with anti reflective coating delivers more energy throughout the day

## High Reliability

Proven resistance to PID and reliable in high temperature and humidity environments.

## No Compromise Guarantee

15 Year Workmanship Warranty  
25 Year Linear Performance Guarantee



**Manufactured Using International Quality System Standards: ISO9001**

**Bifacial Technology Enabling Additional Energy Harvest from Rear Side**

**1500V System Voltage Rating**

### World-class Quality

- Heliene's fully automated manufacturing facilities with state-of-the-art robotics and computer aided inspection systems ensure the highest level of product quality and consistency
- All manufacturing locations are compliant with international quality standards and are ISO 9001 certified
- Heliene modules have received Top Performer rankings in several categories from PV Evolution Labs (PV EL) independent quality evaluations

### Bankable Reputation

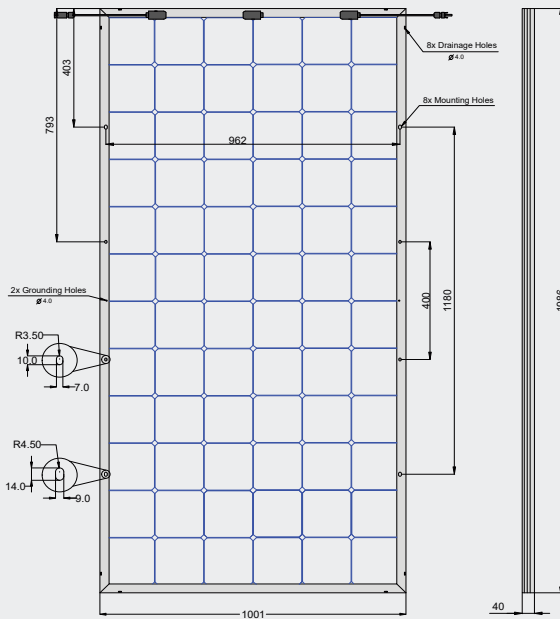
- Established in 2010, Heliene is recognized by Bloomberg New Energy Finance (BNEF) as Tier 1 manufacturer of solar modules and has been approved for use by the U.S. Department of Defense, U.S. Army Corps of Engineers and from numerous top tier utility scale project debt providers
- By investing heavily in research and development, Heliene has been able to stay on the cutting edge of advances in module technology and manufacturing efficiency

### Local Sales, Service, and Support

- With sales offices across the U.S. and Canada, Heliene prides itself on unsurpassed customer support for our clients. Heliene has become the brand of choice for many of the leading residential installers, developers and Independent Power Producers due to our innovative technology, product customization capability and just in time last-mile logistics support
- Local sales and customer support means answered phone calls and immediate answers to your technical and logistics questions. We understand your project schedules often change with little warning and endeavor to work with you to solve your project management challenges



Dimensions for 72M G1 Bifacial Series Modules



Electrical Data (STC)

Peak Rated Power	$P_{mpp}$ (W)	405	400	395	390
Maximum Power Voltage	$V_{mpp}$ (V)	41.00	40.70	40.40	40.11
Maximum Power Current	$I_{mpp}$ (A)	9.88	9.83	9.78	9.72
Open Circuit Voltage	$V_{oc}$ (V)	49.90	49.58	49.26	48.94
Short Circuit Current	$I_{sc}$ (A)	10.41	10.35	10.29	10.24
Module Efficiency *	Eff (%)	20.38	20.13	19.88	19.62
Maximum Series Fuse Rating	MF (A)	20	20	20	20
Power Output Tolerance		[-3/+3 %]			

Bifaciality Factor 70%

STC - Standard Test Conditions: Irradiation 1000 W/m<sup>2</sup> - Air mass AM 1.5 - Cell temperature 25 °C  
\* Calculated using maximum power based on full positive output tolerance [-3/+3%]

Mechanical Data

Solar Cells	72 Full Cell, G1, 158.75mm, PERC Cells
Module Construction	Framed Glass-Backsheet
Dimensions (L x W x D)	1986x 1001 x 40 mm (78.2x 39.5x1.6 inch)
Weight	23.5 kg (51.81lbs)
Frame	Double Webbed 15-Micron Anodized Aluminum Alloy
Glass	3.2mm Low-Iron Content, High-Transmission, PV Solar Glass with Anti Reflective Coating
Junction Box	Three IP-68 Potted Junction Boxes
Output Cables	300mm (11.81 inch) Symmetrical Cables
Connectors	Multi-Contact (Staubli) MC4

Certifications

UL Certification UL61215, UL61730

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	+45°C (±2°C)
Temperature Coefficient of $P_{max}$	-0.35%/°C
Temperature Coefficient of $V_{oc}$	-0.31%/°C
Temperature Coefficient of $I_{sc}$	0.06%/°C

Packaging Configuration

Modules per box:	26 pieces
Modules per 53' trailer:	780 pieces

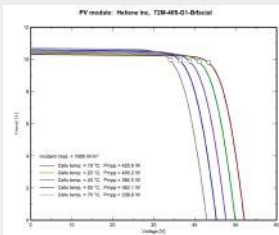
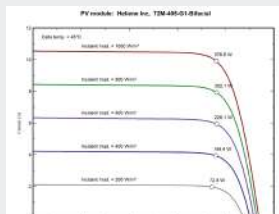
Maximum Ratings

Operational Temperature	-40°C - +85°C
Max System Voltage	1500V

Warranty

15Year Manufacturer's Workmanship Warranty
25 Year Linear Power Guarantee

I-V Curves for 72M G1 Bifacial Series Modules



Certifications

