



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

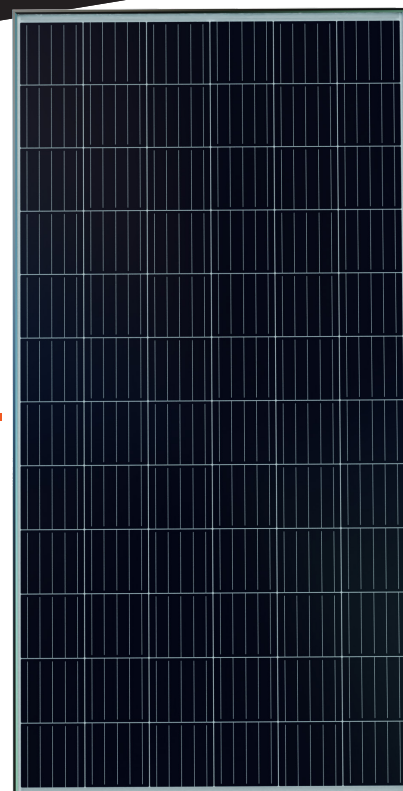
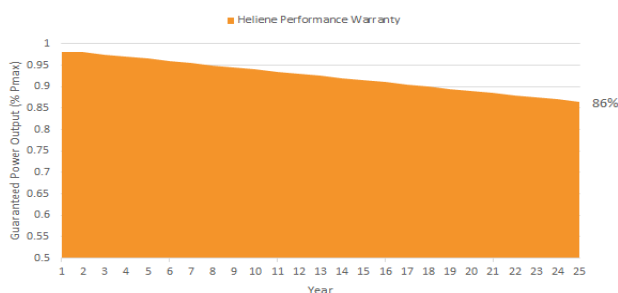
Premium solar glass with anti reflective coating delivers more energy throughout the day

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

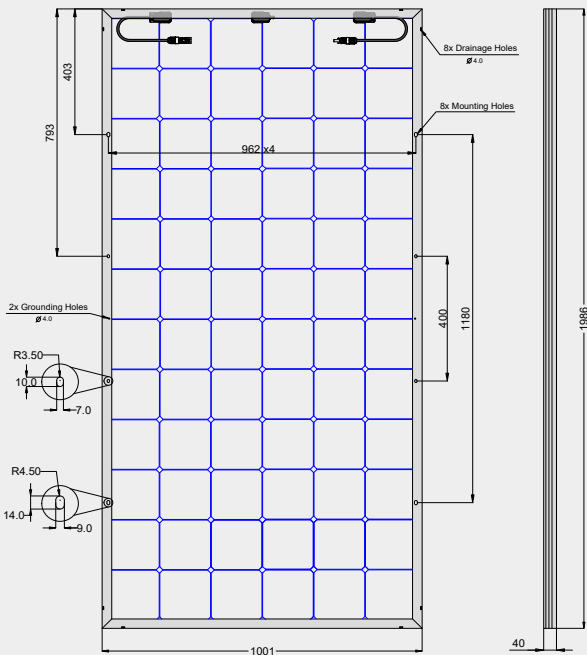
- Established in 2010, Heliene is recognized by Bloomberg New Energy Finance (BNEF) as Tier 1 manufacturer of solar modules and has been approved for use by the U.S. Department of Defense, U.S. Army Corps of Engineers and from numerous top tier utility scale project debt providers
- By investing heavily 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	Isc (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/m² - Air mass AM 1.5 - Cell temperature 25 °C
* Calculated using maximum power based on full positive output tolerance [-3/+3%]

Electrical Data (NMOT)

Maximum Power	P_{mpp} (W)	300	295	290	285
Maximum Power Voltage	V_{mpp} (V)	37.96	37.52	37.08	36.64
Maximum Power Current	I_{mpp} (A)	7.90	7.86	7.82	7.78
Open Circuit Voltage	V_{oc} (V)	46.50	46.20	45.90	45.60
Short Circuit Current	Isc (A)	8.38	8.33	8.28	8.24

NMOT - Nominal Module Operating Temperature:
Irradiance at 800W/m², Ambient Temperature 20°C, Wind speed 1m/s

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	0.3-meter Symmetrical Cables (Standard) 1.2-meter Symmetrical Cables (Optional)
Connectors	Multi-Contact/ Stäubli 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}	-0.26%/°C
Temperature Coefficient of I_{sc}	0.035%/°C

Maximum Ratings

Operational Temperature	-40°C to +85°C
Max System Voltage	1500V
Mech. Load Test (Front)	113 psf / 5400 Pa
Mech. Load Test (Back)	50 psf / 2400 Pa

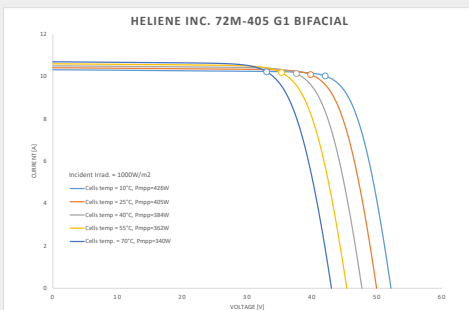
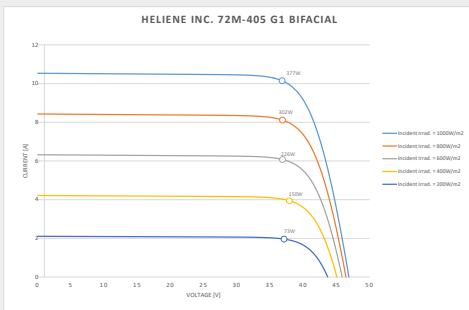
Warranty

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

Packaging Configuration

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

I-V Curves for 72M G1 Bifacial Series Modules



Certifications

