



# 144HC M6 Bifacial Module

144 Half-Cut Monocrystalline 440W – 460W

## 20.8%

Utilizes the latest M6 size super high efficiency Monocrystalline PERC cells. Half cut design further reduces cell to module (CTM) losses.

## 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

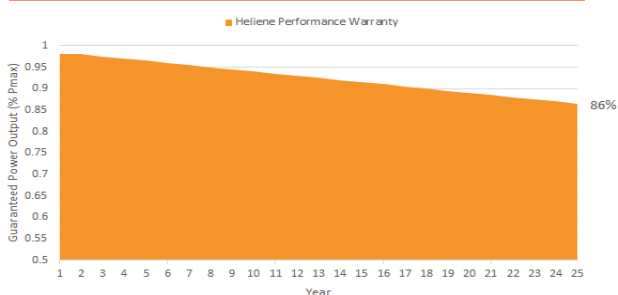
Premium solar glass with anti reflective coating delivers more energy throughout the day

## 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

Half-Cut Design with Split Junction Box Technology

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

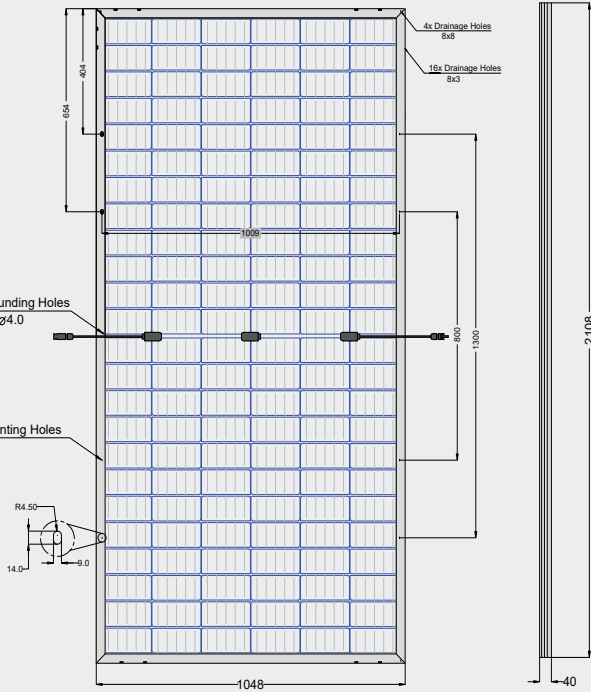
- Established in 2010, Heliene is recognized by Bloomberg New Energy Finance (BNEF) as Tier 1 manufacturer of solar modules and has been approved for use by the U.S. Department of Defense, U.S. Army Corps of Engineers and from numerous top tier utility scale project debt providers
- By investing heavily 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 144HC M6 Bifacial Series Modules



Electrical Data (STC)

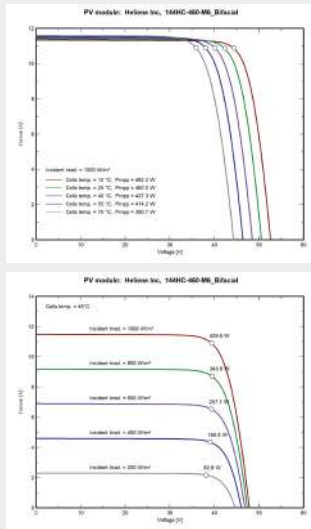
Table with 4 columns: Parameter, P\_mpp (W), 460, 450, 440; V\_mpp (V), 42.58, 42.16, 41.74; I\_mpp (A), 10.80, 10.68, 10.58; V\_oc (V), 50.53, 50.03, 49.04; Isc (A), 11.40, 11.29, 11.21; Eff (%), 20.8, 20.4, 19.9; MF (A), 20, 20, 20; [- 3/+3%]

Bifaciality Factor 70%
STC - Standard Test Conditions: Irradiation 1000 W/m2 - Air mass AM 1.5 - Cell temperature 25 °C

Mechanical Data

Table with 2 columns: Parameter, Value. Includes Solar Cells (144 Half-Cut, M6, 166mm, PERC Cells), Module Construction (Framed Glass-Backsheet), Dimensions (2108 x 1048 x 40 mm), Weight (25 kg), 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 (IP-68 rated with 3 bypass diodes), Output Cables (0.3-meter Symmetrical Cables), Connectors (MC4 Compatible).

I-V Curves for 144HC M6 Bifacial Series Modules



Certifications

UL Certification UL61215, UL61730

Temperature Ratings

Table with 2 columns: Parameter, Value. Includes Nominal Operating Cell Temperature (+45°C), Temperature Coefficient of P\_max (-0.39%/°C), Temperature Coefficient of V\_oc (-0.30%/°C), Temperature Coefficient of I\_sc (0.037%/°C).

Packaging Configuration

Table with 2 columns: Configuration, Quantity. Includes Modules per box (27 pieces), Modules per 53' trailer (702 pieces).

Certifications



Maximum Ratings

Table with 2 columns: Parameter, Value. Includes Operational Temperature (-40°C to +85°C), Max System Voltage (1500V).

Warranty

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



The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the ongoing innovation and product enhancements. Heliene Inc. reserves the right to make necessary adjustment to the information described herein at any time without prior notice.