



144HC M10 Bifacial Module

144 Half-Cut Monocrystalline 520W – 540W

21%

Utilizes the latest M10 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

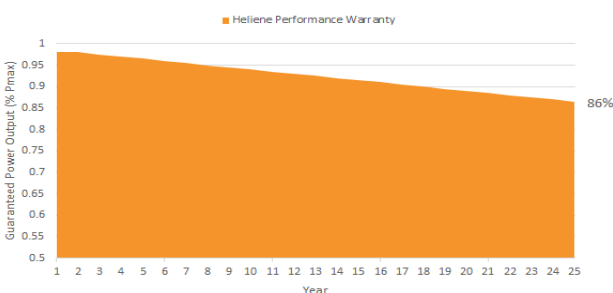
Premium solar glass with anti reflective coating delivers more energy throughout the day

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 as highly bankable 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

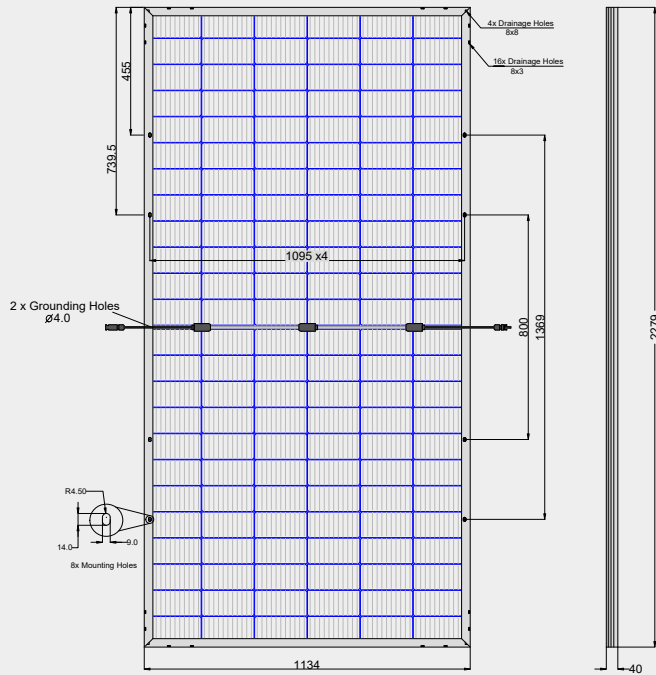
Local Sales, Service, and Support

- 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

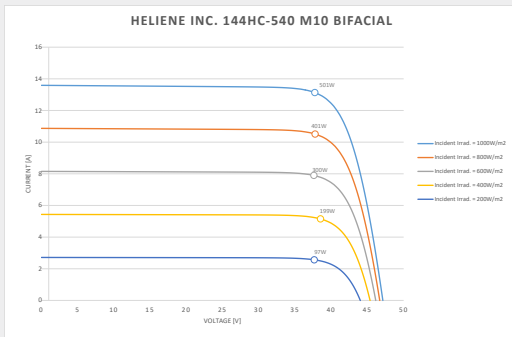
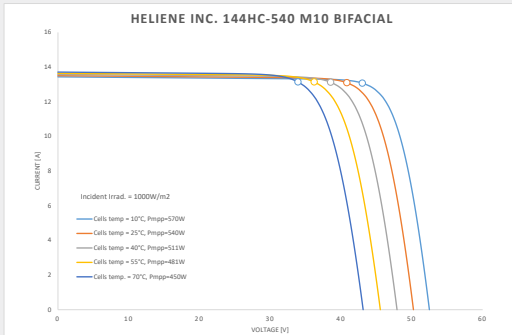




Dimensions for 144HC M10 Bifacial Series Modules



I-V Curves for 144HC M10 Bifacial Series Modules



Certifications & Listing



Electrical Data (STC)

Table with 7 columns: Parameter, Unit, and five data points. Includes Peak Rated Power (530W), Maximum Power Voltage (41.94V), Maximum Power Current (12.64A), Open Circuit Voltage (49.72V), Short Circuit Current (13.37A), Module Efficiency (20.5%), Maximum Series Fuse Rating (30A), Power Output Tolerance (-0/+3%), and Bifaciality Factor (70%).

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

Electrical Data (NMOT)

Table with 7 columns: Parameter, Unit, and five data points. Includes Maximum Power (390W), Maximum Power Voltage (38.58V), Maximum Power Current (10.11A), Open Circuit Voltage (46.66V), and Short Circuit Current (10.77A).

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

Mechanical Data

Table with 2 columns: Component and Description. Includes Solar Cells (144 Half Cut, M10, 182mm, PERC Cells), Module Construction (Framed Glass-Backsheet), Dimensions (2279 x 1134 x 40 mm), Weight (29.2 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), and Connectors (Multi-Contact/ Stäubli MC4).

Certifications

UL Certification: UL61215, UL61730

Temperature Ratings

Table with 2 columns: Parameter and Rating. Includes Nominal Operating Cell Temperature (NOCT) (+45°C), Temperature Coefficient of Pmax (-0.36%/°C), Temperature Coefficient of Voc (-0.28%/°C), and Temperature Coefficient of Isc (0.034%/°C).

Maximum Ratings

Table with 2 columns: Parameter and Rating. Includes Operational Temperature (-40°C to +85°C), Max System Voltage (1500V), Mech. Load Test (Front) (113 psf / 5400Pa), Mech. Load Test (Back) (50 psf / 2400Pa), and Fire Type (Type 1).

Warranty

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

Packaging Configuration

Modules per box: 27 pieces
Modules per 53' trailer: 702 pieces



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. PV modules should be handled and installed only by qualified people. Please carefully read safety and installation instructions available for download from Heliene website before using Heliene PV modules. For warranty details, please refer to Product Warranty Document, also available for download from Heliene website.