



144M M6 BIFACIAL

HALF CUT MONOCRYSTALLINE M6 CELLS

450 Wp

MAX POWER OUTPUT

20.43%

MAX EFFICIENCY

15 YEAR

PRODUCT WARRANTY

25 YEAR

LINEAR PERFORMANCE
GUARANTEE

HELIENE IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

COMBINING PROVEN EUROPEAN TECHNOLOGY WITH NORTH AMERICAN INGENUITY ALLOWS HELIENE TO MAKE A REAL COMMITMENT IN PROVIDING SMARTER ENERGY CHOICES FOR THE FUTURE.

HELIENE
www.heliene.com



HALF CELL DESIGN WITH SPLIT J-BOX TECHNOLOGY TO REDUCE SHADING EFFECT ON ENERGY GENERATION WITH BIFACIAL TECHNOLOGY



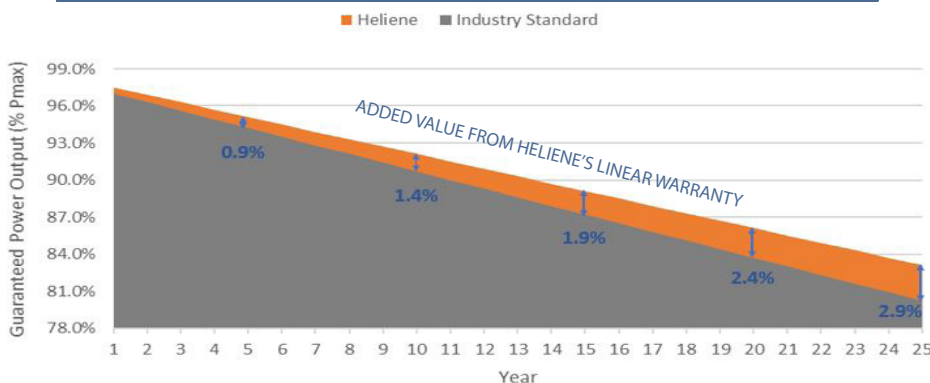
AVAILABLE IN 1000V OR 1500V SYSTEM VOLTAGE RATING



QUALITY MANAGEMENT SYSTEM FOLLOWING INTERNATIONAL STANDARD: ISO9001

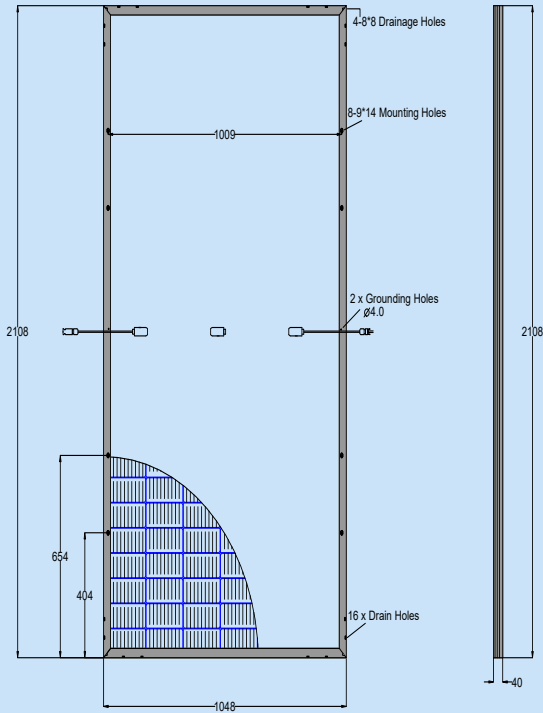
LINEAR PERFORMANCE GUARANTEE

15 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

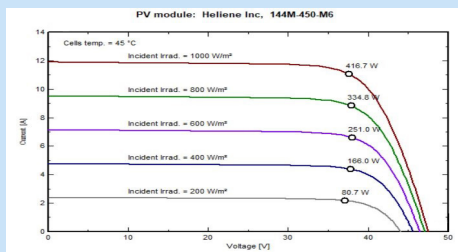
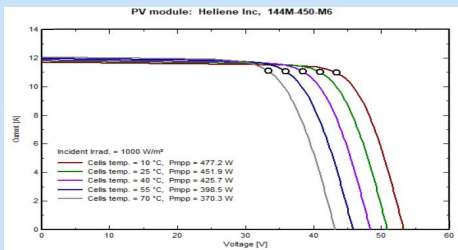


144M M6 BIFACIAL

DIMENSIONS FOR HELIENE 144M M6 SERIES MODULES



I-V CURVE FOR HELIENE 144M M6 SERIES



CERTIFICATIONS



ELECTRICAL DATA (STC)

| | | Front only | Bifacial Gain | | |
|-----------------------|---------------|------------|---------------|-------|-------|
| | | | 10% | 15% | 20% |
| Peak Rated Power | P_{mpp} (W) | 450 | 495 | 518 | 540 |
| Maximum Power Voltage | V_{mpp} (V) | 42.17 | 42.19 | 42.25 | 42.35 |
| Maximum Power Current | I_{mpp} (A) | 10.69 | 11.76 | 12.24 | 12.76 |
| Open Circuit Voltage | V_{oc} (V) | 50.74 | 50.77 | 50.84 | 50.86 |
| Short Circuit Current | I_{sc} (A) | 11.51 | 12.57 | 13.02 | 13.48 |

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 %]

MECHANICAL DATA

| | |
|------------------------|--|
| Dimensions (L x W x D) | 2108 x 1048 x 40 mm (82.99 x 41.25 x 1.6 inch) |
| Weight | 25 kg (55.12 lbs) |
| Output Cables | 0.3 m symmetrical cables with MC4 type connectors |
| Junction Box | IP-67 rated with 3 bypass diodes |
| Frame | Double webbed 15 micron anodized aluminum alloy |
| Front Glass | Low-iron content, high-transmission PV solar glass |
| Solar Cells | 144 Monocrystalline Half cells (166 x 83mm) |

TEMPERATURE RATINGS

| | |
|---|--------------|
| Nominal Operating Cell Temperature (NOCT) | +45°C (±2°C) |
| Temperature Coefficient of P_{max} | -0.39%/°C |
| Temperature Coefficient of V_{oc} | -0.40%/°C |
| Temperature Coefficient of I_{sc} | 0.053%/°C |

PACKAGING CONFIGURATION

| | |
|--------------------------|------------|
| Modules per box: | 26 pieces |
| Modules per 53' trailer: | 728 pieces |

MAXIMUM RATINGS

| | |
|-------------------------|-----------------------------|
| Operational Temperature | -40°C - +85°C |
| Max System Voltage | 1000V (*1500V) *Optional |

WARRANTY

| |
|--|
| 15 Year Manufacturer's Workmanship Warranty |
| 25 Year Linear Power Guarantee |
| (Refer to product warranty page for details) |