

MONO

POLY



HELIENE

60M-HBLK

60-CELL MONOCRYSTALLINE MODULE



300 Wp

MAX POWER OUTPUT

18.6%

MAX EFFICIENCY

10 YEAR

PRODUCT WARRANTY

25 YEAR

LINEAR PERFORMANCE GUARANTEE



H-BLACK INTEGRATION - BLACK FRAME & BACKSHEET



PERFECT FOR HIGH VISIBILITY APPLICATIONS



MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



GUARANTEED POSITIVE POWER SORTING: [-0 : +4.99 WP]

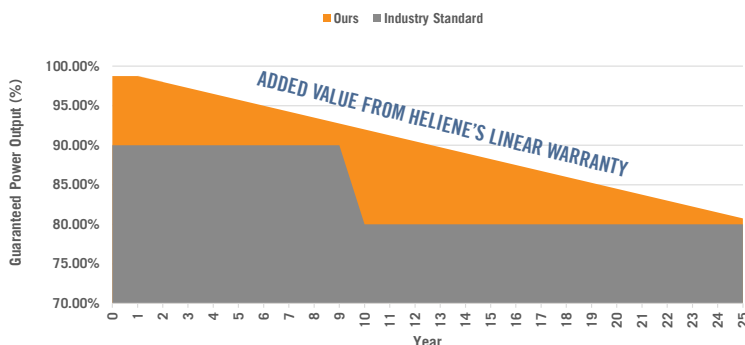
HELIENE INC. IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

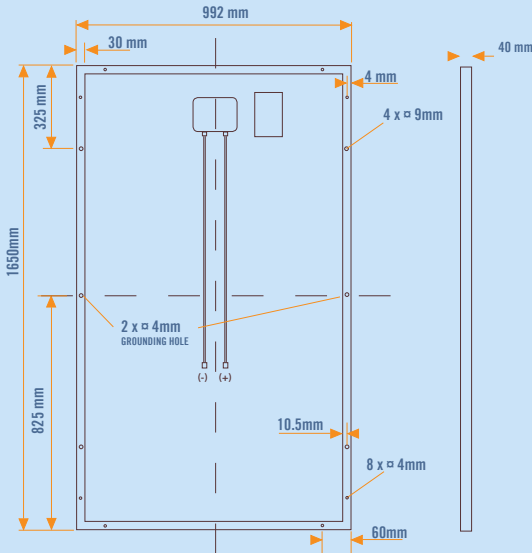
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LINEAR PERFORMANCE GUARANTEE

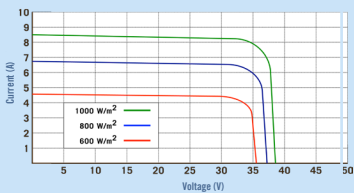
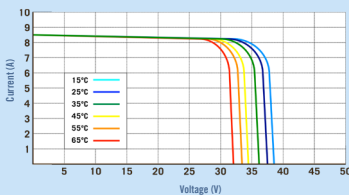
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



## DIMENSIONS FOR HELIENE 60M SERIES MODULES



## I-V CURVE FOR HELIENE 60M SERIES



## CERTIFICATIONS



## ELECTRICAL DATA (STC)

|                        |               |                   |        |        |        |
|------------------------|---------------|-------------------|--------|--------|--------|
| Peak Rated Power       | $P_{mpp}$ (W) | 300               | 295    | 290    | 285    |
| Maximum Power Voltage  | $V_{mpp}$ (V) | 33.139            | 32.838 | 32.537 | 32.236 |
| Maximum Power Current  | $I_{mpp}$ (A) | 9.127             | 9.058  | 8.989  | 8.920  |
| Open Circuit Voltage   | $V_{oc}$ (V)  | 39.830            | 39.679 | 39.528 | 39.377 |
| Short Circuit Current  | $I_{sc}$ (A)  | 9.590             | 9.507  | 9.424  | 9.341  |
| Module Efficiency *    | Eff (%)       | 18.6              | 18.3   | 18.0   | 17.7   |
| Power Output Tolerance |               | [- 0 , + 4.99] Wp |        |        |        |

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 [-0 , +4.99] Wp

## MECHANICAL DATA

|                        |   |
|------------------------|---|
| Dimensions (L x W x D) | 1650 x 992 x 40 mm (65 x 39 x 1.6 inch)                       |
| Weight*                | 20 kg (43.9 lbs)  |
| Output Cables          | 1.1 m (43.3 inch) symmetrical cables with MC4 type connectors |
| Junction Box           | IP-67 rated with bypass diodes                                |
| Frame                  | Double webbed 15 micron anodized aluminum alloy               |
| Front Glass            | Low-iron content, high-transmission PV solar glass            |
| Solar Cells            | 60 Monocrystalline cells (156 x 156 mm)                       |

\* Calculated using 3.2mm PV glass, if 4mm profile is requested weight load will vary

## CERTIFICATIONS

|            |   |
|------------|---|
| UL Listed  | ULC/ORD-C1703-1 , UL1703, UL1703 Fire Classification Type 1 |
| IEC Listed | IEC 61215, IEC 61730  |

All Heliene modules are certified under the California Energy Commission (CEC) Listing Report

## TEMPERATURE RATINGS

|   |              |
|---|--------------|
| Nominal Operating Cell Temperature (NOCT) | +45°C (±2°C) |
| Temperature Coefficient of $P_{max}$      | -0.39%/°C    |
| Temperature Coefficient of $V_{oc}$       | -0.31%/°C    |
| Temperature Coefficient of $I_{sc}$       | 0.045%/°C    |

## PACKAGING CONFIGURATION

|                          |            |
|--------------------------|------------|
| Modules per box:         | 25 pieces  |
| Modules per 53' trailer: | 750 pieces |

## MAXIMUM RATINGS

|                         |                  |
|-------------------------|------------------|
| Operational Temperature | -40°C - +85°C    |
| Max System Voltage      | 1500V (UL / IEC) |
| Max Series Fuse Rating  | 15 A             |

## WARRANTY

10 Year Manufacturer's Workmanship Warranty

25 Year Linear Power Guarantee

(Refer to product warranty page for details)