

MONO

**POLY**

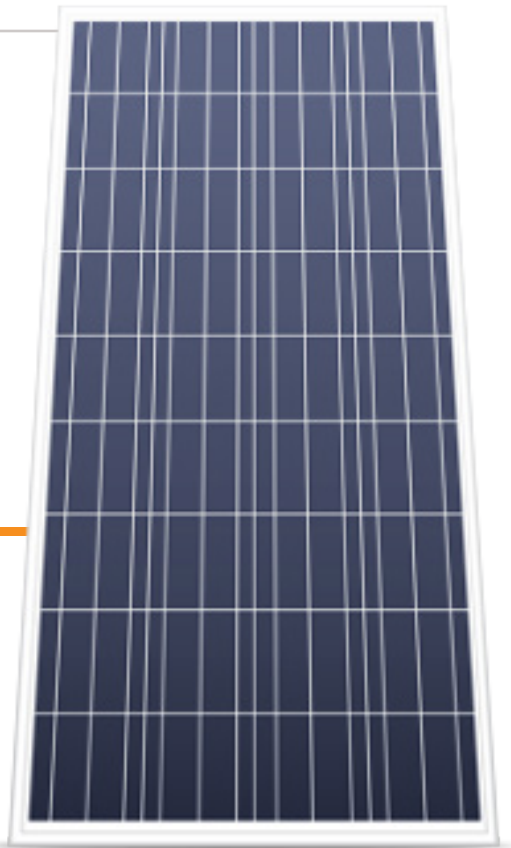


# HELIENE

PHOTOVOLTAIC  
MODULES

## 36<sup>P</sup>

36-CELL POLYCRYSTALLINE MODULE



### 155 Wp

MAX POWER OUTPUT

### 16.0%

MAX EFFICIENCY

### 10 YEAR

PRODUCT WARRANTY

### 25 YEAR

LINEAR PERFORMANCE GUARANTEE



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



CLASS 1 DIVISION 2 CERTIFICATION FOR HEAVY INDUSTRIAL OFF-GRID INSTALLATIONS



MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



40mm DOUBLE WEBBED FRAME FOR THE MOST ROBUST AND RIGID PRODUCT IN THE OFF-GRID MARKET

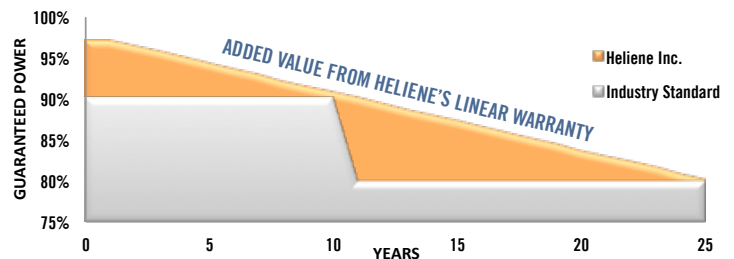
HELIENE INC. IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

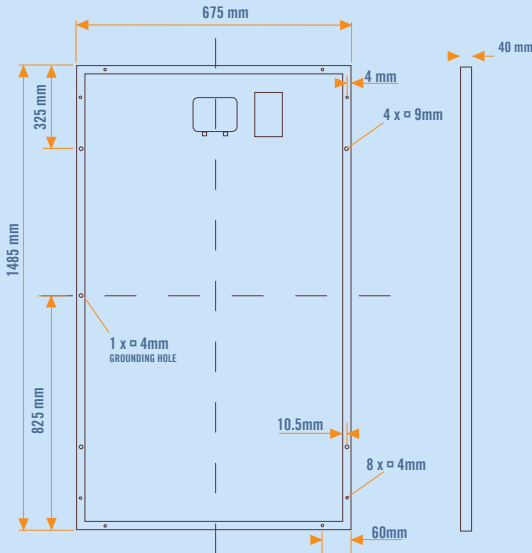
**Heliene Inc.**  
[www.heliene.com](http://www.heliene.com)

## LINEAR PERFORMANCE GUARANTEE

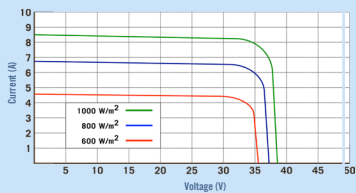
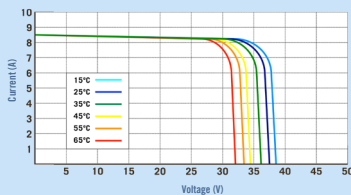
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



## DIMENSIONS FOR HELIENE 36P SERIES MODULES



## I-V CURVE FOR HELIENE 36P SERIES



## CERTIFICATIONS



## ELECTRICAL DATA (STC)

Peak Rated Power	$P_{mpp}$ (W)	155	150	145	140
Maximum Power Voltage	$V_{mpp}$ (V)	18.727	18.458	18.189	17.920
Maximum Power Current	$I_{mpp}$ (A)	8.429	8.270	8.111	7.952
Open Circuit Voltage	$V_{oc}$ (V)	22.487	22.208	21.929	21.650
Short Circuit Current	$I_{sc}$ (A)	9.103	8.942	8.781	8.620
Module Efficiency *	Eff (%)	16.0%	15.5%	15.0%	14.5%
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)	1485 x 675 x 40 mm (58.6 x 26.6 x 1.6 inch)
Weight	14.5 kg (32 lbs)
Output Cables	
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	36 Polycrystalline cells (156 x 156 mm)

## CERTIFICATIONS

UL Listed	ULC/ORD-C1703-1 , UL1703
IEC Listed	IEC 61215, IEC 61730

## TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	+45°C (±2°C)
Temperature Coefficient of $P_{max}$	-0.43%/°C
Temperature Coefficient of $V_{oc}$	-0.32%/°C
Temperature Coefficient of $I_{sc}$	0.05%/°C

## PACKAGING CONFIGURATION

Modules per box:	25 pieces
Modules per 53' trailer:	1300 pieces

## MAXIMUM RATINGS

Operational Temperature	-40°C - +85°C
Max System Voltage	1000V (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)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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