

MONO

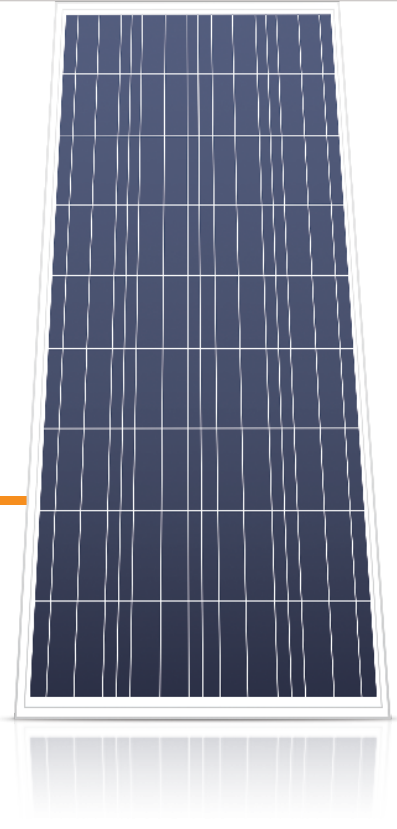
**POLY**



**HELIENE**

**36<sup>P</sup>**

36-CELL POLYCRYSTALLINE MODULE



**160 Wp**

MAX POWER OUTPUT

**16.0%**

MODULE EFFICIENCY

**10 YEAR**

PRODUCT WARRANTY

**25 YEAR**

LINEAR PERFORMANCE GUARANTEE



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



CERTIFIED FOR USE IN CLASS 1 DIVISION 2 HAZARDOUS LOCATIONS (GROUP A,B,C & D)



MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



40mm DOUBLE WEBBED FRAME ENSURES ROBUST AND RIGID PRODUCT FOR ALL INSTALLATION TYPES

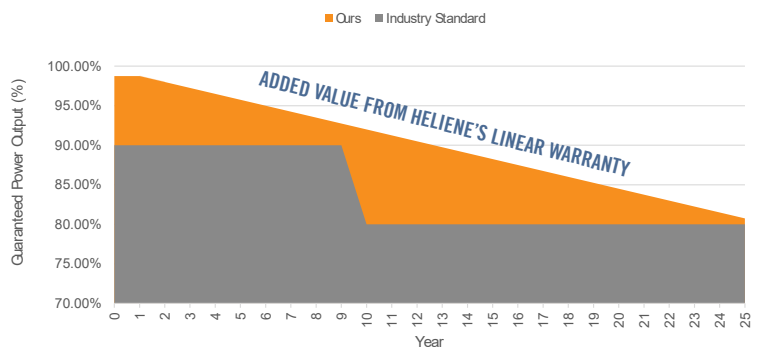
HELIENE INC. IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

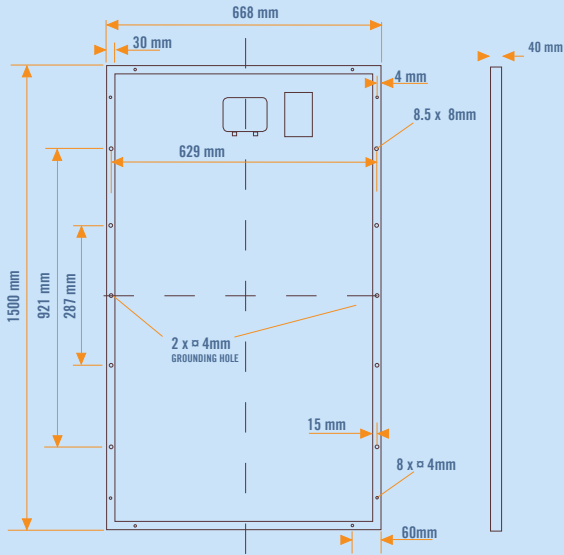
**HELIENE**  
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### LINEAR PERFORMANCE GUARANTEE

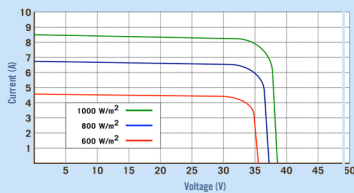
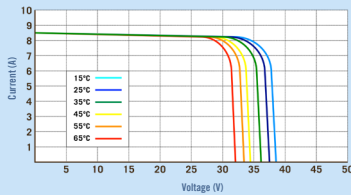
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



## DIMENSIONS FOR HELIENE 36P SERIES MODULES



## I-V CURVE FOR HELIENE 36P SERIES



## CERTIFICATIONS



## ELECTRICAL DATA (STC)

Peak Rated Power	$P_{mpp}$ (W)	160	155	150	145
Maximum Power Voltage	$V_{mpp}$ (V)	19.00	18.73	18.46	18.19
Maximum Power Current	$I_{mpp}$ (A)	8.59	8.43	8.27	8.11
Open Circuit Voltage	$V_{oc}$ (V)	22.77	22.49	22.21	21.93
Short Circuit Current	$I_{sc}$ (A)	9.26	9.10	8.94	8.78
Module Efficiency *	Eff (%)	16.0	15.5	15.0	14.5
Maximum Fuse Rating	MF (A)	15	15	15	15
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)	1500 x 668 x 40 mm (59 x 26.3 x 1.6 inch)
Weight	14.5 kg (32 lbs)
Output Cables	*Optional
Junction Box * (*Optional: Class 1 Div 2 Rated)	IP65; 4 Terminal Screw Block; Terminals Compatible with 8 - 14 AWG Wire Compatible with PG 13.5 Cable Gland, M20 13mm (½") Conduit, or Other Cable Fittings for 6-12 mm <sup>2</sup> Cable
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)

\* Standard IP67 Junction Box with 800mm cables, Class 1 Div 2 Certification not applicable with this option

## CERTIFICATIONS

UL Listed	ULC/ORD-C1703-1, UL1703
IEC Listed	Optional

## 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

## MAXIMUM RATINGS

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

## WARRANTY

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

(Refer to product warranty page for details)

## PACKAGING CONFIGURATION

Modules per box:	20 pieces
Modules per 53' trailer:	1200 pieces