

MONO

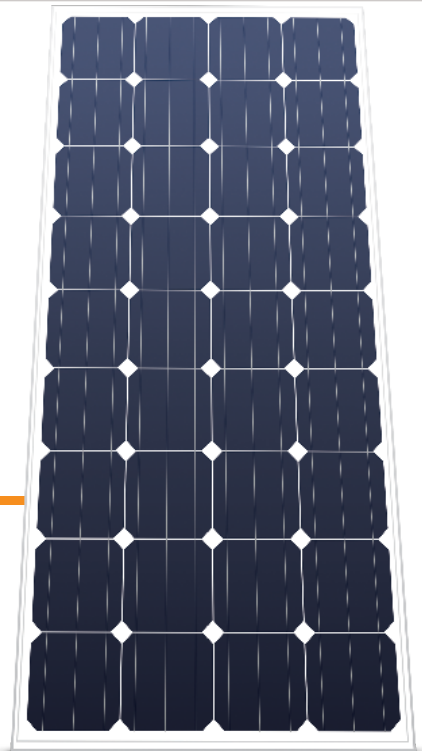
POLY



HELIENE

36^M

36-CELL MONOCRYSTALLINE MODULE



180 Wp

MAX POWER OUTPUT

18.0%

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

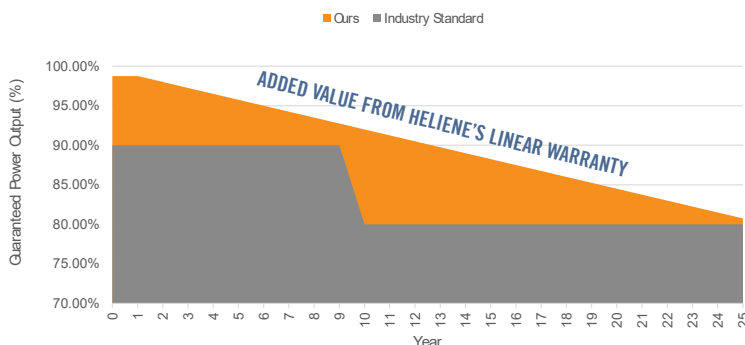
HELIENE INC. IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

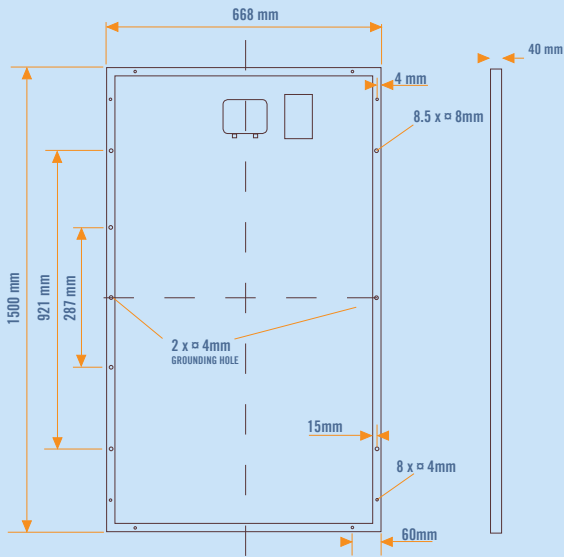
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LINEAR PERFORMANCE GUARANTEE

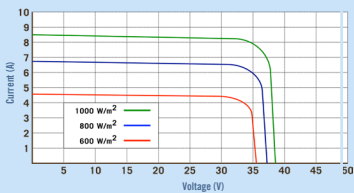
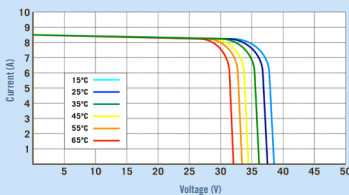
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



DIMENSIONS FOR HELIENE 36M SERIES MODULES



I-V CURVE FOR HELIENE 36M SERIES



CERTIFICATIONS



ELECTRICAL DATA (STC)

Peak Rated Power	P_{mpp} (W)	180	175	170	165
Maximum Power Voltage	V_{mpp} (V)	19.62	19.20	18.93	18.67
Maximum Power Current	I_{mpp} (A)	9.30	9.22	9.11	8.98
Open Circuit Voltage	V_{oc} (V)	23.79	23.40	23.29	23.03
Short Circuit Current	I_{sc} (A)	9.74	9.63	9.50	9.37
Module Efficiency *	Eff (%)	18.0	17.5	17.0	16.5
Maximum Fuse Series Rating	MF (A)	20	20	20	20
Power Output Tolerance		[- 0 , + 4.99] Wp			

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 [-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	*Optional
Junction Box*	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 ² Cable
Frame	Double webbed 15 micron anodized aluminum alloy
Front Glass	Low-iron content, high-transmission PV solar glass
Solar Cells	36 Monocrystalline cells (156 x 156 mm)

* Standard IP65 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}	-0.39%/°C
Temperature Coefficient of V_{oc}	-0.31%/°C
Temperature Coefficient of I_{sc}	0.045%/°C

PACKAGING CONFIGURATION

Max Modules per box:	26 pieces
Max Modules per 53' trailer:	1560 pieces

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)