

MONO

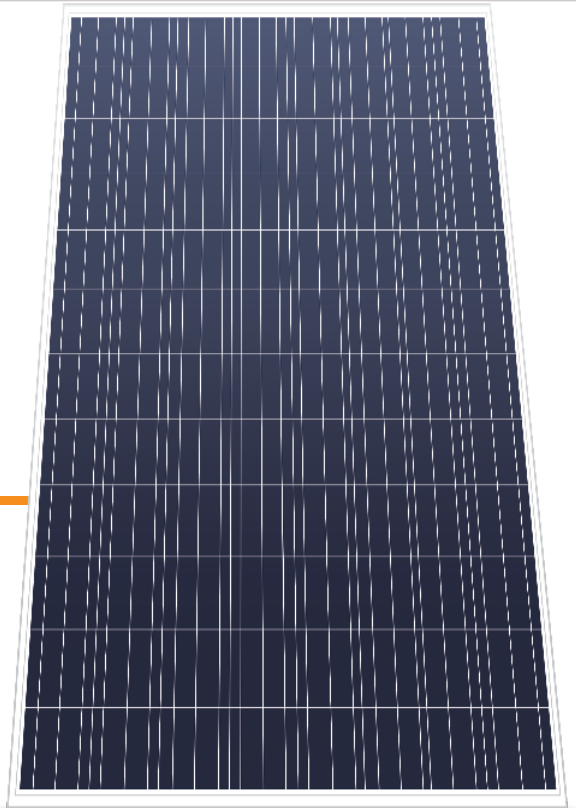
POLY



HELIENE

96^P

96-CELL POLYCRYSTALLINE MODULE



430 Wp

MAX POWER OUTPUT

16.8%

MAX EFFICIENCY

10 YEAR

PRODUCT WARRANTY

25 YEAR

LINEAR PERFORMANCE GUARANTEE



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



AVAILABLE IN 1000V OR 1500V SYSTEM VOLTAGE RATING



MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



REDUCED SYSTEM TOTAL INSTALLED COST (TIC)

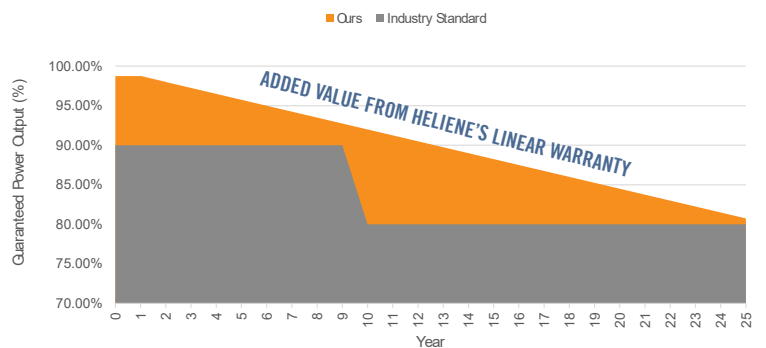
HELIENE INC. IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

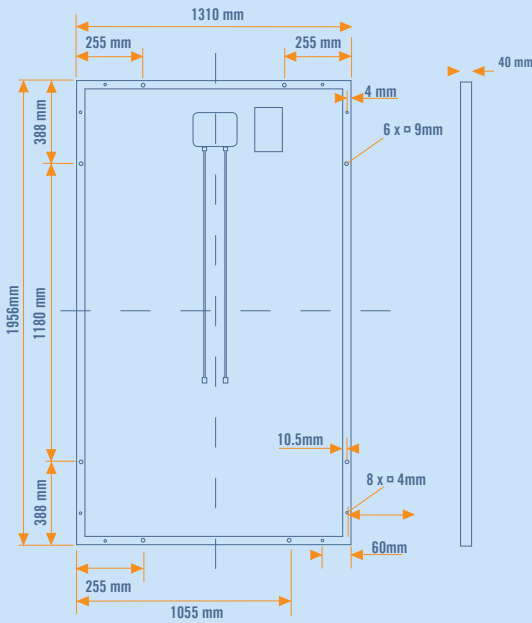
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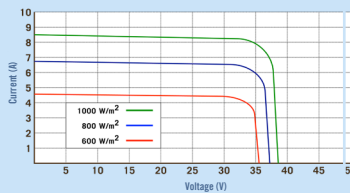
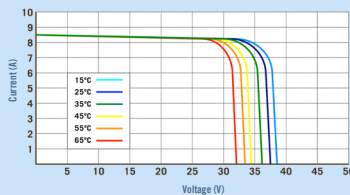
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



DIMENSIONS FOR HELIENE 96P SERIES MODULES



I-V CURVE FOR HELIENE 96P SERIES



CERTIFICATIONS



ELECTRICAL DATA (STC)

Peak Rated Power	P_{mpp} (W)	430	425	420	415
Maximum Power Voltage	V_{mpp} (V)	50.32	50.14	49.96	49.80
Maximum Power Current	I_{mpp} (A)	8.59	8.53	8.46	8.39
Open Circuit Voltage	V_{oc} (V)	61.66	61.58	61.52	61.44
Short Circuit Current	I_{sc} (A)	9.07	8.99	8.93	8.86
Module Efficiency *	Eff (%)	16.8	16.6	16.4	16.2
Maximum Series Fuse Rating	MF (A)	15	15	15	15
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)	1956 x 1310 x 40 mm (77 x 51.6 x 1.6 inch)
Weight	38 kg (83.7 lbs)
Output Cables	1.5 m (59.1") symmetrical cables with MC4 type connectors
Junction Box	IP-67 rated with bypass diodes
Frame	Double webbed 5 micron anodized aluminum alloy
Front Glass	Low-iron content, high-transmission PV solar glass
Solar Cells	96 Polycrystalline cells (156 x 156 mm)

CERTIFICATIONS

UL Certification	ULC/ORD-C1703-1, UL1703
IEC Certification	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

PACKAGING CONFIGURATION

Modules per box:	25 pieces
Modules per 53' trailer:	550 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)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. Specifications included in this datasheet are subject to change without notice.