

60-Cell Polycrystalline



250Wp

MAX POWER OUPUT

15.6%

MAX EFFICIENCY

10 YEAR

PRODUCT WARRANTY

25 YEAR

LINEAR PERFORMANCE GUARANTEE

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

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



Heliene Inc. www.heliene.ca





CERTIFIED TO WITHSTAND HIGH WIND LOADS (2400PA)
AND SNOW LOADS (5400PA)



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



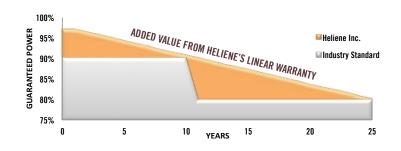
MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



EXCELLENT PERFORMANCE UNDER LOW LIGHT CONDITIONS SUCH AS CLOUDY DAYS, MORNING AND EARLY EVENING

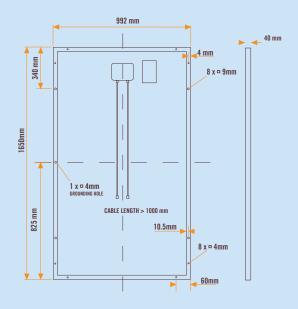
LINEAR PERFORMANCE QUARANTEE

10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

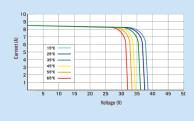


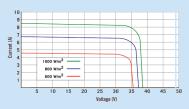
60P - SERIES

DIMENSIONS FOR HELIENE GOP SERIES MODULES



I-V CURVE FOR HELIENE 60P SERIES





CERTIFICATIONS











ELECTRICAL DATA (STC)

Peak Rated Power	P _{mpp} (W)	250	245	240	235
Maximimum Power Voltage	V _{mpp} (V)	30.70	30.43	30.35	29.9
Maximum Power Current	I _{mpp} (A)	8.14	8.05	7.91	7.86
Open Circuit Voltage	V _{oc} (V)	37.8	37.65	37.55	37.0
Short Circuit Current	Isc (A)	8.65	8.6	8.55	8.48
Module Efficiency *	Eff (%)	15.6	15.3	15.0	14.7
Power Output Tolerance	[- 0 , + 4.99] Wp				

STC - Standard Test Conditions: Irradiation 1000 W/m2 - Air mass AM 1.5 - Cell temperature 25 $^{\circ}\text{C}$

* 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	19 kg (42 lbs)	
Output Cables	> 1.0 m (39) symetrical cables with MC4 type connectors	
Junction Box	IP-65 rated with bypass diodes	
Frame	Double webbed 5 micron anodized aluminum alloy	
Front Glass	Low-iron content, high-transmission PV solar glass	
Solar Cells	60 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 $V_{\mbox{\tiny oc}}$	-0.32%/°C
Temperature Coefficient of I _{sc}	0.05%/°C

MAXIMIM RATINGS

minimom minimo			
Operational Temperature	-40°C - +85°C		
Max System Voltage	1000V(IEC) / 600V(UL)		
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)

PACKAGING CONFIGURATION

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

OP EN NOV 2012

