



MODULES

# 280Wp

MAX POWER OUPUT

17.4%

**MAX EFFCIENCY** 

## 10 YEAR

PRODUCT WARRANTY

## **25 YEAR**

LINEAR PERFORMANCE GUARANTEE

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

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.ca

## Final Assembly in USA







#### THE MOST POWERFUL PRODUCT IN THE INDUSTRY



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



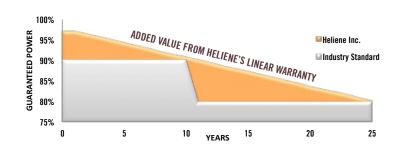
MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: IS09001



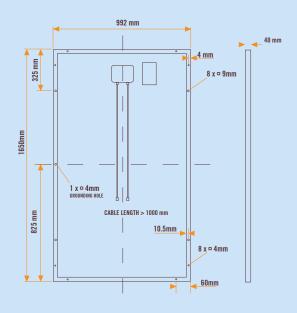
EXCELLENT PERFORMANCE UNDER LOW LIGHT CONDITIONS SUCH AS CLOUDY DAYS, MORNING AND **EARLY EVENING** 

## LINEAR PERFORMANCE AUARANTEE

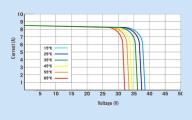
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

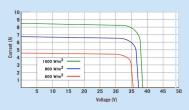


#### **DIMENSIONS FOR HELIENE 60M HD SERIES MODULES**



#### I-V CURVES FOR HELIENE 60M HD SERIES





#### **CERTIFICATIONS**











## **ELECTRICAL DATA (STC)**

Peak Rated Power	P <sub>mpp</sub> (W)	280	275	270	265
Maximimum Power Voltage	V <sub>mpp</sub> (V)	32.4	31.9	31.5	31.17
Maximum Power Current	I <sub>mpp</sub> (A)	8.74	8.69	8.58	8.50
Open Circuit Voltage	V <sub>oc</sub> (V)	38.9	38.8	38.6	38.4
Short Circuit Current	Isc (A)	9.06	9.04	9.02	9.00
Module Efficiency *	Eff (%)	17.4	17.1	16.8	16.5
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)	1650 x 992 x 40 mm (65 x 39 x 1.6 inch)	
Weight	19 kg (42 lbs)	
Output Cables	> 1.0 m (39 inch) 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 Monocrystalline cells (156 x 156 mm), with aluminum surface shield technology	

## **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 <sub>max</sub>	-0.39%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.31%/°C
Temperature Coefficient of I <sub>sc</sub>	0.045%/°C

## **MAXIMUM RATINGS**

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



www.simpleray.com 1.800.952.3235

email: sales@simpleray.com

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