



MAX POWER OUPUT

**17.5%** MAX EFFICIENCY

**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]



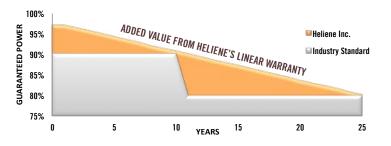
MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: **IS09001** 



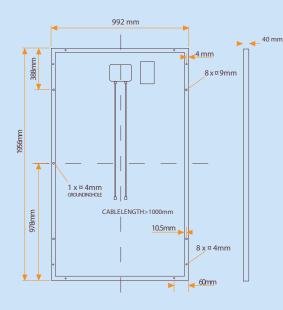
EXCELLENT PERFORMANCE UNDER LOW LIGHT CONDITIONS SUCH AS CLOUDY DAYS, MORNING AND EARLY EVENING

# LINEAR PERFORMANCE GUARANTEE

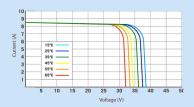
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

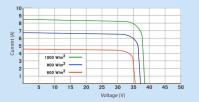


DIMENSIONS FOR HELIENE 72M HD SERIES MODULES



**I-V CURVES FOR HELIENE 72M HD SERIES** 





CERTIFICATIONS



#### **ELECTRICAL DATA (STC)**

Peak Rated Power	P <sub>mpp</sub> (W)	335	330	325	320
Maximimum Power Voltage	V <sub>mpp</sub> (V)	38.7	38.3	37.9	37.43
Maximum Power Current	I <sub>mpp</sub> (A)	8.73	8.68	8.66	8.655
Open Circuit Voltage	V <sub>oc</sub> (V)	46.2	46.1	45.9	45.74
Short Circuit Current	lsc (A)	9.2	9.15	9.1	9.05
Module Efficiency *	Eff (%)	17.5	17.3	17.0	16.8
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 992 x 40 mm (77 x 39 x 1.6 inch)		
Weight	21 kg (46.3 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	72 Monocrystalline cells (156 x 156 mm), with a luminum 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 $P_{_{\text{max}}}$	-0.39%/°C
Temperature Coefficient of $\rm V_{\rm oc}$	-0.31%/°C
Temperature Coefficient of ${\rm I}_{\rm sc}$	0.045%/°C

## PACKAGING CONFIGURATION

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



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)



1.800.952.3235 email: sales@simpleray.com



