

72M - SERIES
72-Cell Monocrystalline



# 335Wp

MAX POWER OUPUT

17.5%

**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





THE MOST POWERFUL PRODUCT IN THE INDUSTRY



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



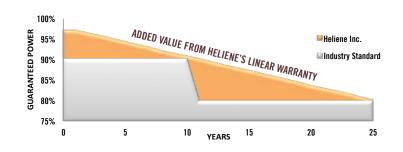
MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



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

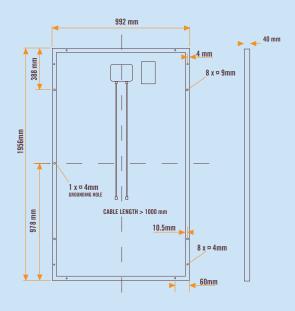
## LINEAR PERFORMANCE QUARANTEE

10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

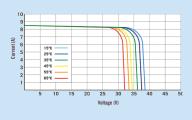


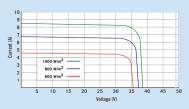
# 72M - D SERIES

#### **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)	8.7	8.65	8.61	8.55
Open Circuit Voltage	V <sub>oc</sub> (V)	46.2	46.1	45.9	45.74
Short Circuit Current	Isc (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

#### **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 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 $P_{\text{max}}$	-0.39%/°C
Temperature Coefficient of $V_{\mbox{\tiny oc}}$	-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:	700 pieces

72MHD EN NOV 2012



<sup>\*</sup> Calculated using maximum power based on full positive output tolerance [-0, +4.99] Wp