

**HELIENE**  
PHOTOVOLTAIC  
MODULES

# 72<sup>P</sup> - SERIES

72-Cell Polycrystalline



**305Wp**

MAX POWER OUTPUT

**15.9%**

MAX EFFICIENCY

**10 YEAR**

PRODUCT WARRANTY

**25 YEAR**

LINEAR PERFORMANCE GUARANTEE

Final Assembly in USA

 Qualifies for Made in MN Incentive



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



GUARANTEED POSITIVE 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

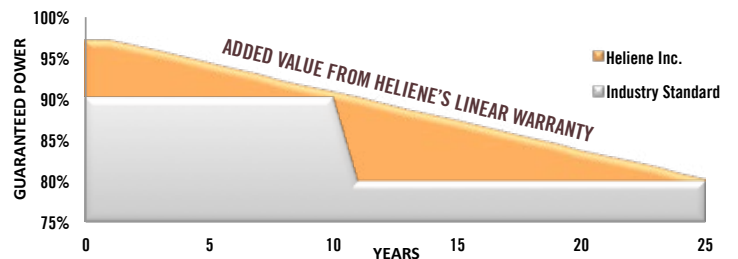
HELIENE INC. IS NORTH AMERICA'S PREMIER MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF CANADA AND THE US.

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](http://www.heliene.ca)

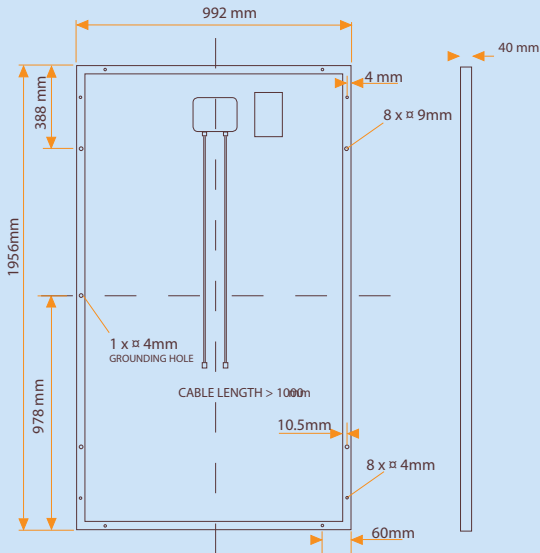
## LINEAR PERFORMANCE GUARANTEE

10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

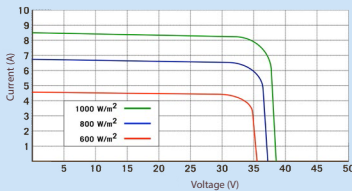
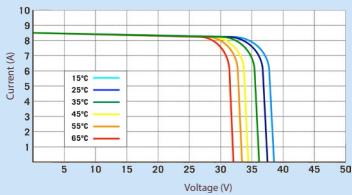


# 72P - SERIES

## DIMENSIONS FOR HELIENE 72P SERIES MODULES



## I-V CURVE FOR HELIENE 72P SERIES



## CERTIFICATIONS



## ELECTRICAL DATA (STC)

Peak Rated Power	$P_{mpp}$ (W)	305	300	295	290
Maximum Power Voltage	$V_{mpp}$ (V)	37.14	36.84	36.52	36.34
Maximum Power Current	$I_{mpp}$ (A)	8.21	8.14	8.05	7.98
Open Circuit Voltage	$V_{oc}$ (V)	45.57	45.36	45.2	44.55
Short Circuit Current	$I_{sc}$ (A)	8.69	8.65	8.6	8.57
Module Efficiency *	Eff (%)	15.9	15.7	15.5	15.2
Power Output Tolerance		[- 0, + 4.99] Wp			

STC - Standard Test Conditions: Irradiation 1000 W/m<sup>2</sup> - 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) symmetrical 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 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 $V_{oc}$	-0.32%/°C
Temperature Coefficient of $I_{sc}$	0.05%/°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



**simpleray**

www.simpleray.com

1.800.952.3235

email: sales@simpleray.com

72P\_EN\_NOV\_2012