

# HELIENE 72<sup>M</sup> BIFACIAL

72-CELL MONOCRYSTALLINE BIFACIAL 380W MODULE

380 Wp

MAX POWER OUTPUT (Front only)

19.65%

MAX EFFICIENCY (Front only)

10 YEAR

PRODUCT WARRANTY

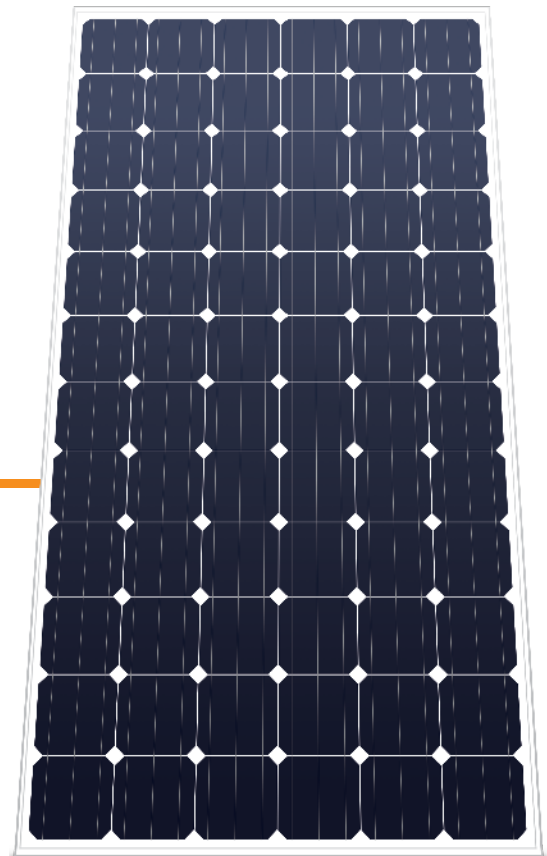
25 YEAR

LINEAR PERFORMANCE GUARANTEE

HELIENE IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

HELIENE  
[www.heliene.com](http://www.heliene.com)



BIFACIAL TECHNOLOGY ENABLE ADDITIONAL ENERGY HARVESTING FROM REAR SIDE



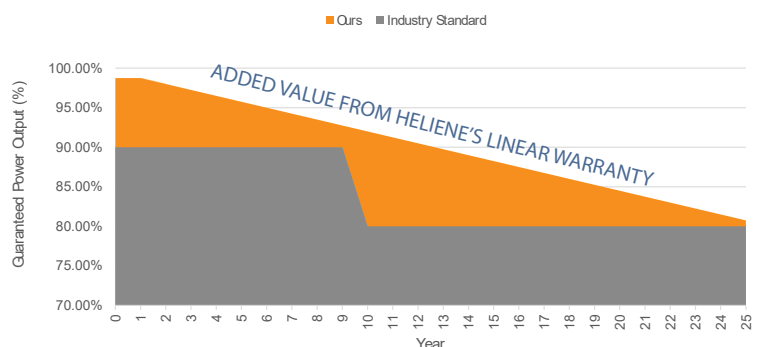
MAXIMUM SYSTEM VOLTAGE 1500VDC(UL)



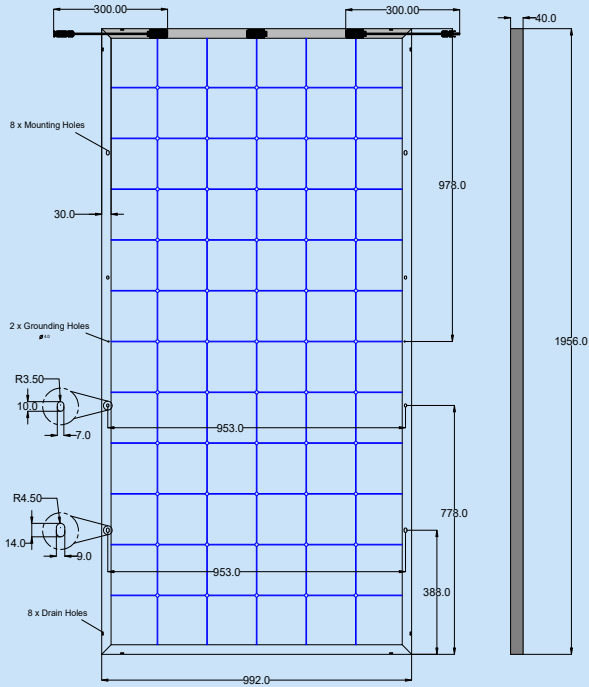
MANUFACTURED FOLLOWING INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001

## LINEAR PERFORMANCE GUARANTEE

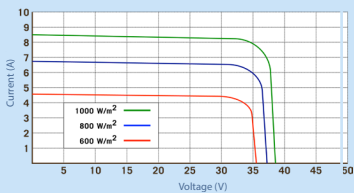
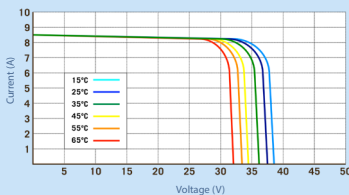
10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



### DIMENSIONS FOR HELIENE 72M SERIES MODULES



### I-V CURVE FOR HELIENE 72M SERIES



### CERTIFICATIONS



### ELECTRICAL DATA (STC)

		Front only	Bifacial Gain		
			10%	15%	20%
Peak Rated Power	$P_{mpp}$ (W)	380	418	437	456
Maximum Power Voltage	$V_{mpp}$ (V)	41.20	41.22	41.28	41.30
Maximum Power Current	$I_{mpp}$ (A)	9.23	10.15	10.60	11.05
Open Circuit Voltage	$V_{oc}$ (V)	50.51	50.54	50.61	50.63
Short Circuit Current	$I_{sc}$ (A)	9.63	10.52	10.89	11.28

STC - Standard Test Conditions: Irradiation 1000 W/m<sup>2</sup> - Air mass AM 1.5 - Cell temperature 25 °C  
Power Output tolerances (Front Only): [-0 + 4.99W]

### MECHANICAL DATA

Dimensions (L x W x D)	1956 x 992 x 40 mm (77 x 39 x 1.6 inch)
Weight	22 kg (48.5lbs)
Output Cables	300mm (11.81 inch) symmetrical cables with MC4 type connectors
Junction Box	Three IP-68 Potted Junction Boxes
Frame	Double webbed 15 micron anodized aluminum alloy
Front Glass	Low-iron content, high-transmission PV solar glass
Solar Cells	72 Monocrystalline bifacial cells (156.75 x 156.75 mm)

### CERTIFICATIONS

UL Certification	ULC/ORD-C1703-1, UL1703
IEC Certification	Optional

Heliene modules are certified under the California Energy Commission (CEC) Listing Report

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	+45°C (±2°C)
Temperature Coefficient of $P_{max}$	-0.36%/°C
Temperature Coefficient of $V_{oc}$	-0.27%/°C
Temperature Coefficient of $I_{sc}$	0.06%/°C

### MAXIMUM RATINGS

Operational Temperature	-40°C - +85°C
Max System Voltage	1500VDC(UL)

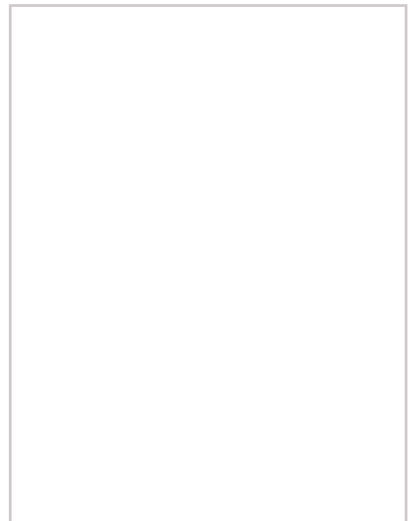
### WARRANTY

10 Year Manufacturer's Workmanship Warranty
25 Year Linear Power Guarantee

(Refer to product warranty page for details)

### PACKAGING CONFIGURATION

Modules per box:	26 pieces
Modules per 53' trailer:	780 pieces



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