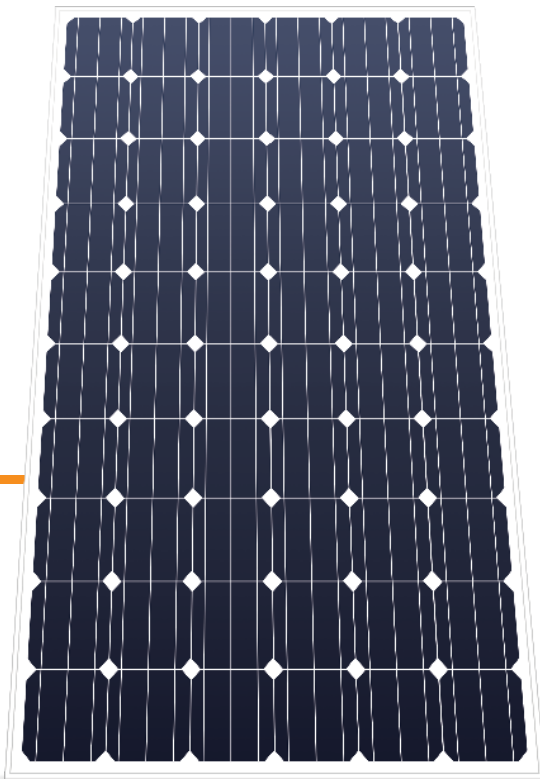




**HELIENE**

**60<sup>M</sup>**

60-CELL MONOCRYSTALLINE MODULE



**305 Wp**

MAX POWER OUTPUT

**18.6%**

MAX EFFICIENCY

**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)



GUARANTEED POWER SORTING: [-2/+2 %]



AVAILABLE IN 1000V OR 1500V SYSTEM VOLTAGE RATING



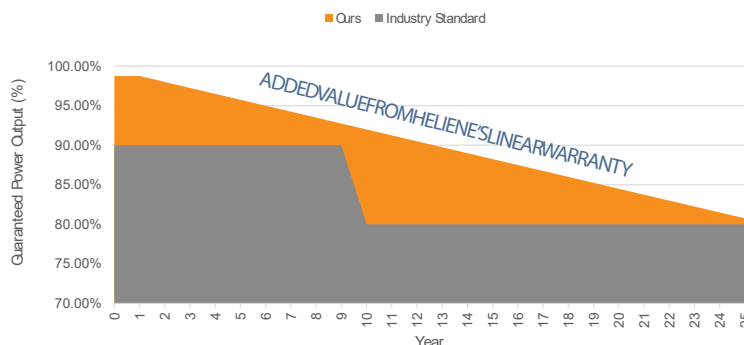
MANUFACTURED FOLLOWING INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



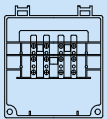
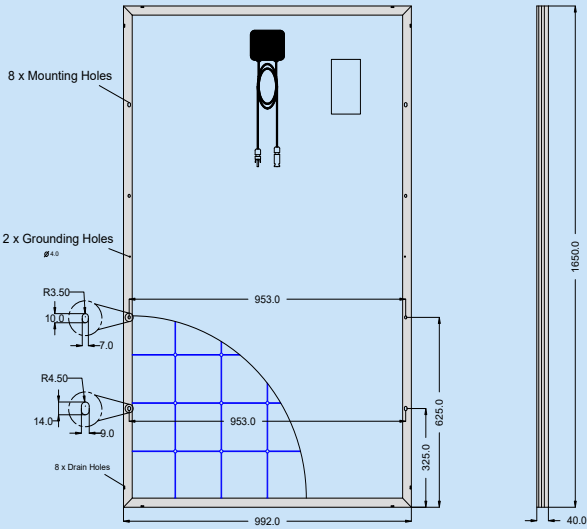
H-BLACK INTEGRATION AVAILABLE - BLAKE FRAME & BACKSHEET

## LINEAR PERFORMANCE GUARANTEE

10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



## DIMENSIONS FOR HELIENE 60M SERIES MODULES



### Optional: Class I Division 2 rated Junction Box

IP 65 rated Junction Box with 4 Terminal Screw Block.  
Terminals Compatible with 8-14 AWG Wire; Compatible with PG13.5 Cable Gland  
M20 13mm (1/2") Conduit, or Other Cable Fittings for 6-12 mm<sup>2</sup> Cable

## ELECTRICAL DATA (STC)

Peak Rated Power	$P_{mpp}$ (W)	305	300	295	290	285
Maximum Power Voltage	$V_{mpp}$ (V)	33.44	33.40	32.84	32.54	32.24
Maximum Power Current	$I_{mpp}$ (A)	9.20	9.13	9.06	8.99	8.92
Open Circuit Voltage	$V_{oc}$ (V)	39.98	39.83	39.68	39.53	39.38
Short Circuit Current	$I_{sc}$ (A)	9.67	9.59	9.51	9.42	9.34
Module Efficiency *	Eff (%)	18.6	18.3	18.0	17.7	17.4
Maximum Series Fuse Rating	MF (A)	20	15	15	15	15
Power Output Tolerance		[-2/+2 %]				

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 [-2/+2 %]

## MECHANICAL DATA

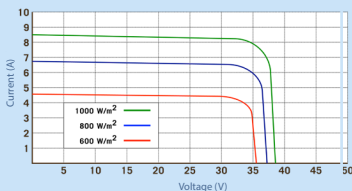
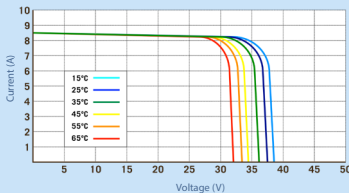
Dimensions (L x W x D)	1650 x 992 x 40 mm (65 x 39 x 1.6 inch)
Weight*	18.5 kg (40.78 lbs)
Output Cables	1.0 m (39.4 inch) symmetrical cables with MC4 type connectors (Not applicable for CID2 rated Junction Box)
Junction Box	IP-67 rated with bypass diodes/CID2 IP-65 Rated
Frame	Double webbed 15 micron anodized aluminum alloy
Front Glass	Low-iron content, high-transmission PV solar glass

## CERTIFICATIONS

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

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

## I-V CURVE FOR HELIENE 60M SERIES



## CERTIFICATIONS



## TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	+45°C (±2°C)
Temperature Coefficient of $P_{max}$	-0.39%/°C
Temperature Coefficient of $V_{oc}$	-0.31%/°C
Temperature Coefficient of $I_{sc}$	0.045%/°C

## PACKAGING CONFIGURATION

Modules per box:	26 pieces
Modules per 53' trailer:	936 pieces

## MAXIMUM RATINGS

Operational Temperature	-40°C - +85°C
Max System Voltage	1000V (*1500V) *Optional

## WARRANTY

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

(Refer to product warranty page for details)