

60-CELL MONOCRYSTALLINE MODULE





295 Wp

MAX POWFR OUPUT

18.3%

**MAX EFFICIENCY** 

10 YEAR

PRODUCT WARRANTY

**25 YEAR** 

LINEAR PERFORMANCE GUARANTEE

**GUARANTEED POSITIVE POWER SORTING:** [-0: +4.99 WP]



**DESIGNED FOR 1500V DC APPLICATIONS** 



MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



H-BLACK INTEGRATION AVAILABLE (ALL-BLACK MODULE)

HELIENE INC. 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.

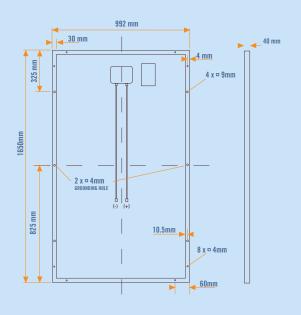
Heliene Inc.
www.heliene.com

# LINEAR PERFORMANCE GUARANTEE

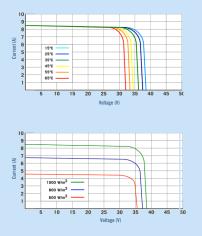




### **DIMENSIONS FOR HELIENE GOM SERIES MODULES**



#### I-V CURVE FOR HELIENE 60M SERIES



#### **CERTIFICATIONS**









# **ELECTRICAL DATA (STC)**

Peak Rated Power	P <sub>mpp</sub> (W)	295	290	285	280	275
Maximum Power Voltage	V <sub>mpp</sub> (V)	32.69	32.51	32.24	31.94	31.62
Maximum Power Current	I <sub>mpp</sub> (A)	9.10	9.03	8.92	8.85	8.78
Open Circuit Voltage	V <sub>oc</sub> (V)	39.61	39.49	39.38	39.23	39.07
Short Circuit Current	Isc (A)	9.56	9.45	9.34	9.26	9.18
Module Efficiency *	Eff (%)	18.3	18.0	17.7	17.4	17.1
Power Output Tolerance	Power Output Tolerance [- 0 , + 4			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)	1650 x 992 x 40 mm (65 x 39 x 1.6 inch)	
Weight*	20 kg (43.9 lbs)	
Output Cables	1.1 m (43.3 inch) symmetrical cables with MC4 type connectors	
Junction Box	IP-67 rated with bypass diodes	
Frame	Double webbed 15 micron anodized aluminum alloy	
Front Glass	Low-iron content, high-transmission PV solar glass	
Solar Cells	60 Monocrystalline cells (156 x 156 mm)	

<sup>\*</sup> Calculated using 3.2mm PV glass, if 4mm profile is requested weight load will vary

# CERTIFICATIONS

UL Listed	ULC/ORD-C1703-1 , UL1703, UL1703 Fire Classification Type 1
IEC Listed	IEC 61215, IEC 61730

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

# **TEMPERATURE RATINGS**

Nominal Operating Cell Temperature (NOCT)	+45°C (±2°C)
Temperature Coefficient of $P_{\max}$	-0.39%/°C
Temperature Coefficient of $V_{\mbox{\tiny oc}}$	-0.31%/°C
Temperature Coefficient of I <sub>sc</sub>	0.045%/°C

#### MAXIMIM RATINGS

maximom matrinae			
Operational Temperature	-40°C - +85°C		
Max System Voltage	1500V (UL / IEC)		
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













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