



60M-HBLK

60-CELL MONOCRYSTALLINE MODULE



310 Wp
MAX POWER OUTPUT

19.01%
MAX EFFICIENCY

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR PERFORMANCE GUARANTEE



H-BLACK INTEGRATION - BLACK FRAME & BACKSHEET



PERFECT FOR HIGH VISIBILITY INSTALLATIONS



MANUFACTURED ACCORDING TO INTERNATIONAL QUALITY SYSTEM STANDARDS: ISO9001



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

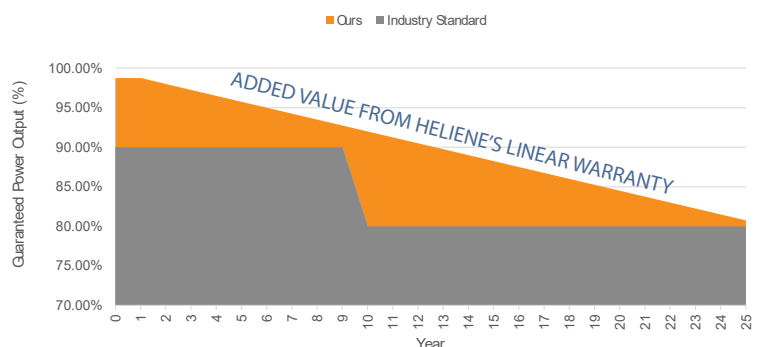
HELIENE INC. IS A PREMIER SOLAR MODULE MANUFACTURER, SERVICING THE GROWING SOLAR ENERGY MARKETS OF NORTH AMERICA.

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

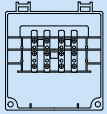
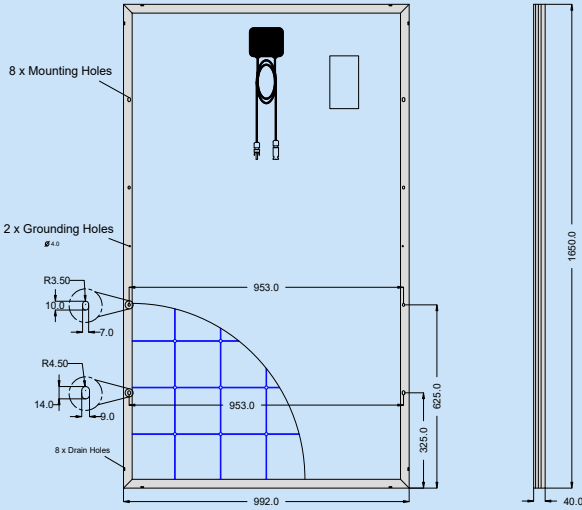
Heliene Inc.
www.heliene.com

LINEAR PERFORMANCE GUARANTEE

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 mm² Cable

ELECTRICAL DATA (STC)

Peak Rated Power	P_{mpp} (W)	310	305	300	295	290
Maximum Power Voltage	V_{mpp} (V)	33.54	33.44	33.139	32.84	32.54
Maximum Power Current	I_{mpp} (A)	9.27	9.20	9.127	9.06	8.99
Open Circuit Voltage	V_{oc} (V)	39.58	39.98	39.83	39.68	39.53
Short Circuit Current	I_{sc} (A)	9.96	9.673	9.59	9.51	9.42
Module Efficiency *	Eff (%)	19.01	18.6	18.3	18.0	17.7
Maximum Series Fuse Rating	MF (A)	20	20	15	15	15
Power Output Tolerance	[- 0, + 4.99] Wp					

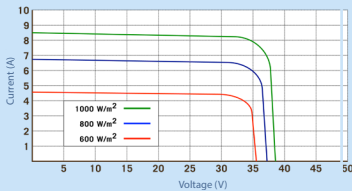
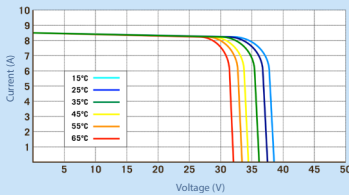
STC - Standard Test Conditions: Irradiation 1000 W/m² - Air mass AM 1.5 - Cell temperature 25 °C

* Calculated using maximum power based on full positive output tolerance [-0, +4.99] Wp

MECHANICAL DATA

Dimensions (L x W x D)	1650 x 992 x 40 mm (65 x 39 x 1.6 inch)
Weight*	18.5 kg (40.78lbs)
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

I-V CURVE FOR HELIENE 60M SERIES



CERTIFICATIONS

UL Certification	ULC/ORD-C1703-1, UL1703
IEC Certification	IEC 61215, IEC 61730

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}	-0.39%/°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)

CERTIFICATIONS

