



HELIENE

60M-HBLK

60-CELL 320W MONOCRYSTALLINE MODULE



320 Wp

MAX POWER OUTPUT

19.26%

MAX EFFICIENCY

10 YEAR

PRODUCT WARRANTY

25 YEAR

LINEAR PERFORMANCE
GUARANTEE

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



HIGHER POWER OUTPUT USING N-TYPE CELLS
ALMOST ZERO LID



PERFECT FOR HIGH VISIBILITY INSTALLATIONS



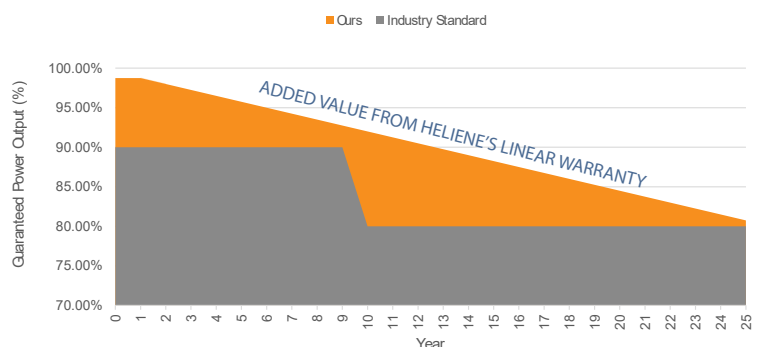
QUALITY MANAGEMENT SYSTEM FOLLOWING
INTERNATIONAL STANDARD: ISO9001



H-BLACK INTERGRATION - BLACK FRAME&BACK-SHEET

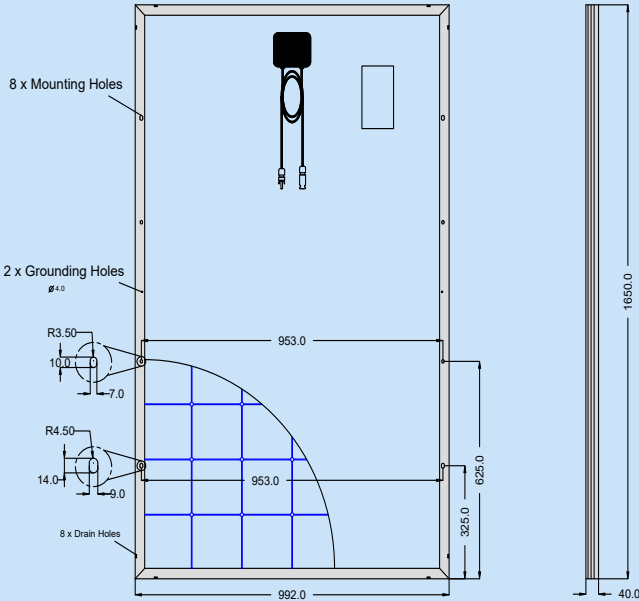
LINEAR PERFORMANCE GUARANTEE

10 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

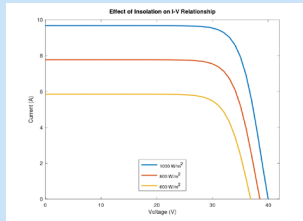
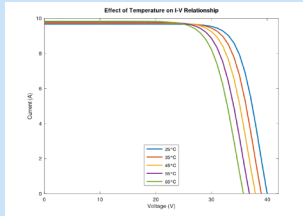


60M-HBLK

DIMENSIONS FOR HELIENE 60M SERIES MODULES



I-V CURVE FOR HELIENE 60M SERIES



CERTIFICATIONS



ELECTRICAL DATA (STC)

Peak Rated Power	P_{mpp} (W)	320
Maximum Power Voltage	V_{mpp} (V)	34.17
Maximum Power Current	I_{mpp} (A)	9.38
Open Circuit Voltage	V_{oc} (V)	40.06
Short Circuit Current	I_{sc} (A)	10.09
Module Efficiency *	Eff (%)	19.26
Maximum Series Fuse Rating	MF (A)	20
Power Output Tolerance		[- 2 / + 2] %

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 [- 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
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)

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)

HELIENE60MHLK_320_N_REV.00



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
 Specifications included in this datasheet are subject to change without notice.