



144M M6 MONOFACIAL

HALF CUT MONOCRYSTALLINE M6 CELLS

460 Wp

MAX POWER OUTPUT

20.92%

MAX EFFICIENCY

15 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.

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HALF CELL DESIGN WITH SPLIT J-BOX TECHNOLOGY TO REDUCE SHADING EFFECT ON ENERGY GENERATION



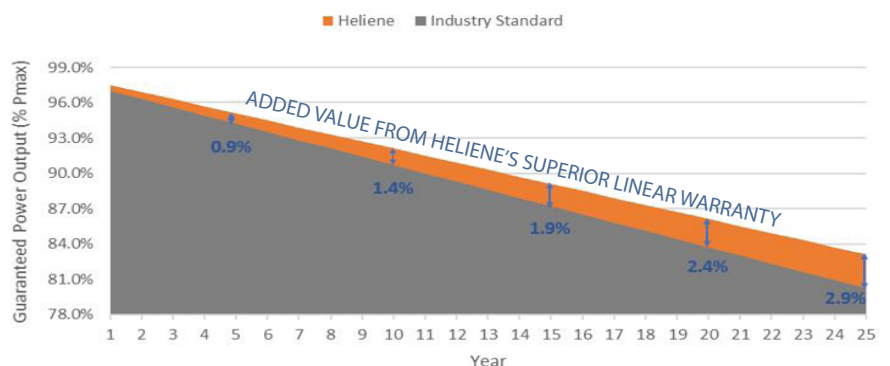
AVAILABLE IN 1000V OR 1500V SYSTEM VOLTAGE RATING



QUALITY MANAGEMENT SYSTEM FOLLOWING INTERNATIONAL STANDARD: ISO9001

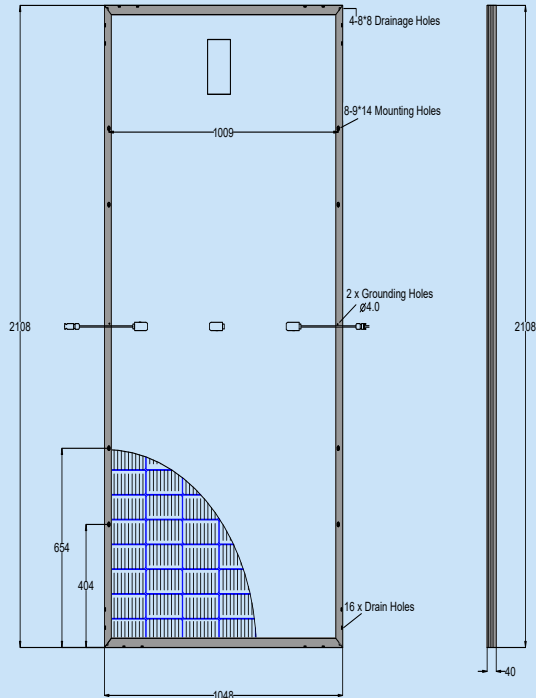
LINEAR PERFORMANCE GUARANTEE

15 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE

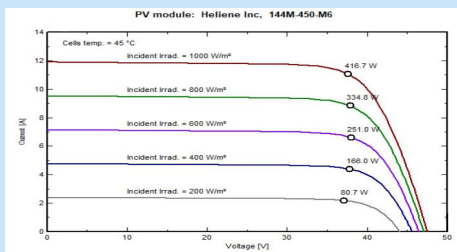
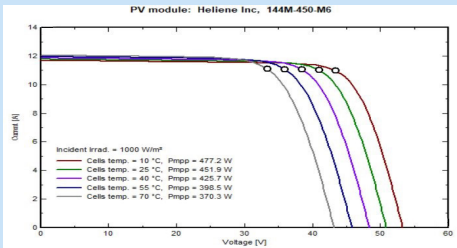


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DIMENSIONS FOR HELIENE 144M M6 SERIES MODULES



I-V CURVE FOR HELIENE 144M M6 SERIES



CERTIFICATIONS



ELECTRICAL DATA (STC)

Peak Rated Power	P_{mpp} (W)	460	450
Maximum Power Voltage	V_{mpp} (V)	42.31	42.17
Maximum Power Current	I_{mpp} (A)	10.88	10.69
Open Circuit Voltage	V_{oc} (V)	51.26	50.74
Short Circuit Current	I_{sc} (A)	11.93	11.51
Module Efficiency *	Eff (%)	20.92	20.43
Maximum Series Fuse Rating	MF (A)	20	20
Power Output Tolerance		[- 3/+3%]	

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 [-3/+3%]

MECHANICAL DATA

Dimensions (L x W x D)	2108 x 1048 x 40 mm (82.99 x 41.25 x 1.6 inch)
Weight	25 kg (55.12 lbs)
Output Cables	0.3 m symmetrical cables with MC4 type connectors
Junction Box	IP-67 rated with 3 bypass diodes
Frame	Double webbed 15 micron anodized aluminum alloy
Front Glass	Low-iron content, high-transmission PV solar glass
Solar Cells	144 Monocrystalline Half cells (166 x 83mm)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	+45°C (±2°C)
Temperature Coefficient of P_{max}	-0.38%/°C
Temperature Coefficient of V_{oc}	-0.32%/°C
Temperature Coefficient of I_{sc}	0.051%/°C

PACKAGING CONFIGURATION

Modules per box:	26 pieces
Modules per 53' trailer:	728 pieces

MAXIMUM RATINGS

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

WARRANTY

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

(Refer to product warranty page for details)