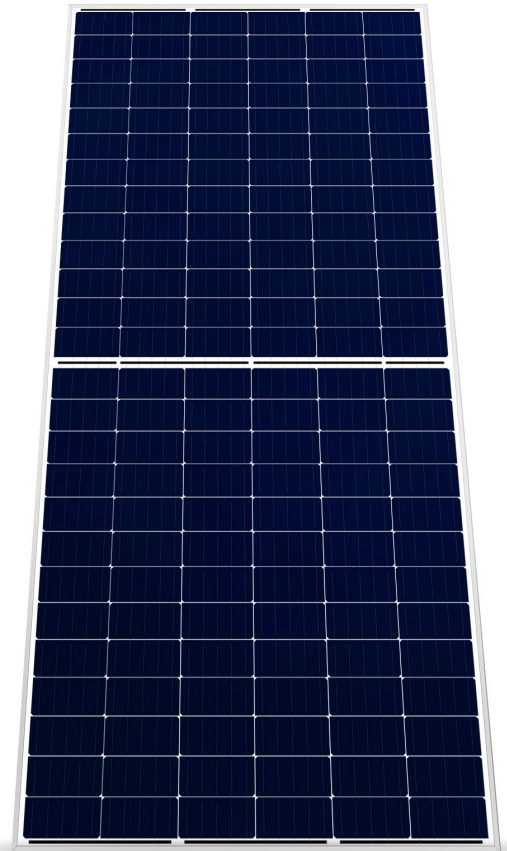




MAX SERIES⁴²⁰

HELIENE MONOCRYSTALLINE HALF CELL BIFACIAL PV MODULE



420 Wp

MAX POWER OUTPUT

19.04%

MAX EFFICIENCY

12 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



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



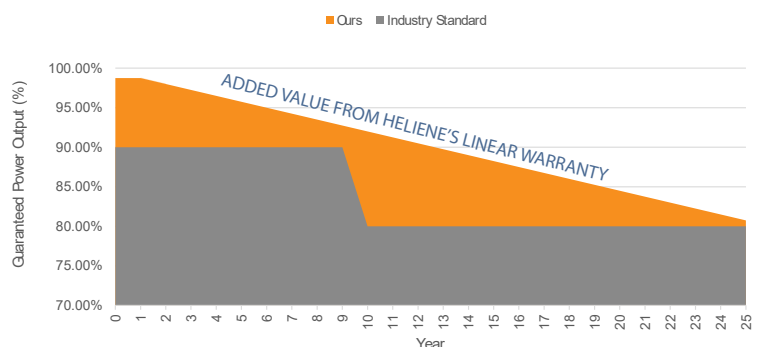
AVAILABLE IN 1000V OR 1500V SYSTEM VOLTAGE RATING



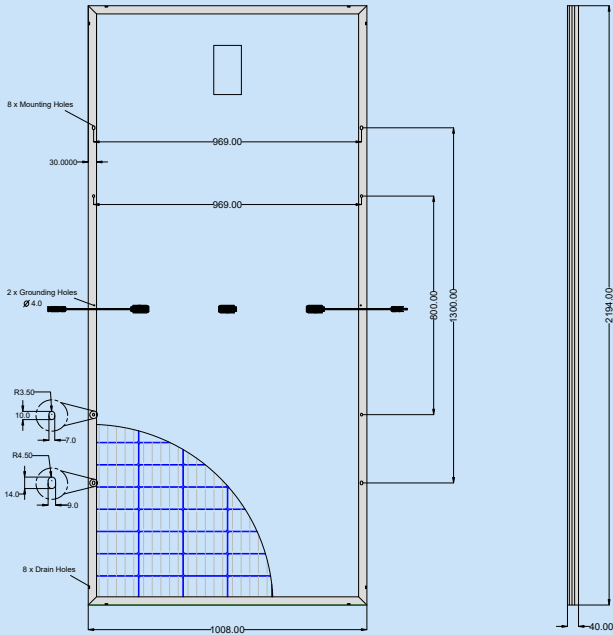
QUALITY MANAGEMENT SYSTEM FOLLOWING INTERNATIONAL STANDARD: ISO9001

LINEAR PERFORMANCE GUARANTEE

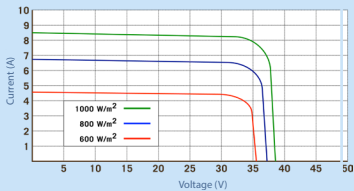
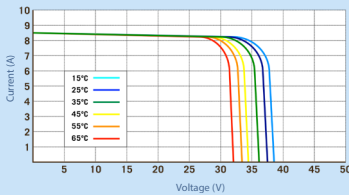
12 YEAR WORKMANSHIP WARRANTY • 25 YEAR LINEAR PERFORMANCE GUARANTEE



DIMENSIONS FOR HELIENE MAX SERIES MODULES



I-V CURVE FOR HELIENE MAX SERIES



CERTIFICATIONS



ELECTRICAL DATA (STC)

		Front only	Bifacial Gain		
			10%	15%	20%
Peak Rated Power	P_{mpp} (W)	420	462	483	504
Maximum Power Voltage	V_{mpp} (V)	44.21	44.23	44.29	44.39
Maximum Power Current	I_{mpp} (A)	9.49	10.44	10.87	11.33
Open Circuit Voltage	V_{oc} (V)	52.15	52.18	52.25	52.27
Short Circuit Current	I_{sc} (A)	10.29	11.24	11.64	12.05

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)	2194 x 1008 x 40 mm (86.38 x 39.68 x 1.6 inch)
Weight	25.0 kg (55.1lbs)
Output Cables	300 mm (11.8 inch) symmetrical cables with MC4 type connectors
Junction Box	3x IP-68 rated Junction Boxes
Frame	Double webbed 15 micron anodized aluminum alloy
Front Glass	Low-iron content, high-transmission PV solar glass
Solar Cells	156 Monocrystalline cells (158.75 x 79.38mm)

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}	0.039%/°C

PACKAGING CONFIGURATION

Modules per box:	26 pieces
Modules per 53' trailer:	780 pieces

MAXIMUM RATINGS

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

WARRANTY

- 12 Year Manufacturer's Workmanship Warranty
- 25 Year Linear Power Guarantee

(Refer to product warranty page for details)