

# HIGH EFFICIENCY MONO PV MODULE



## NORTH AMERICAN MANUFACTURER

Mitrex is a world-leading manufacturer of standard solar and BIPV products based in Canada. With over 20 years of experience, Mitrex guarantees high-quality, fully-automated manufacturing and continuous innovation in solar technology.



## QUALITY, DURABILITY & PERFORMANCE

Mitrex panels are engineered with the highest quality- featuring wide-ranging compatibility with racking and electrical components, advanced cell technology, ability to withstand high snow/wind load conditions, and high performing modules.

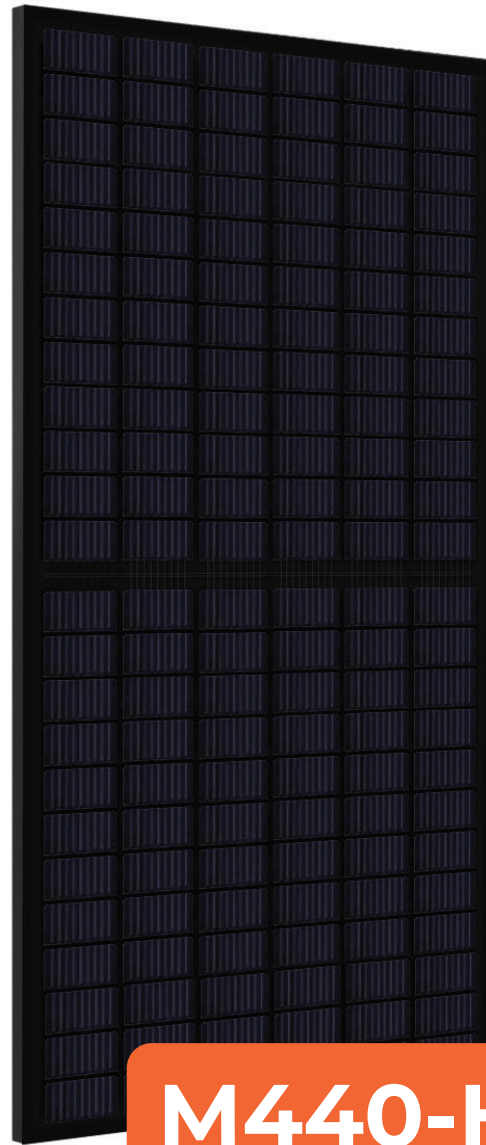


## 25-YEAR PRODUCT & PERFORMANCE WARRANTY

All our products come with an industry leading 25-year warranty for products and performance, ensuring the quality of the hardware, energy generation, and aesthetics are maintained.



THE WORLD'S LARGEST BIPV MANUFACTURER



# M440-H1H



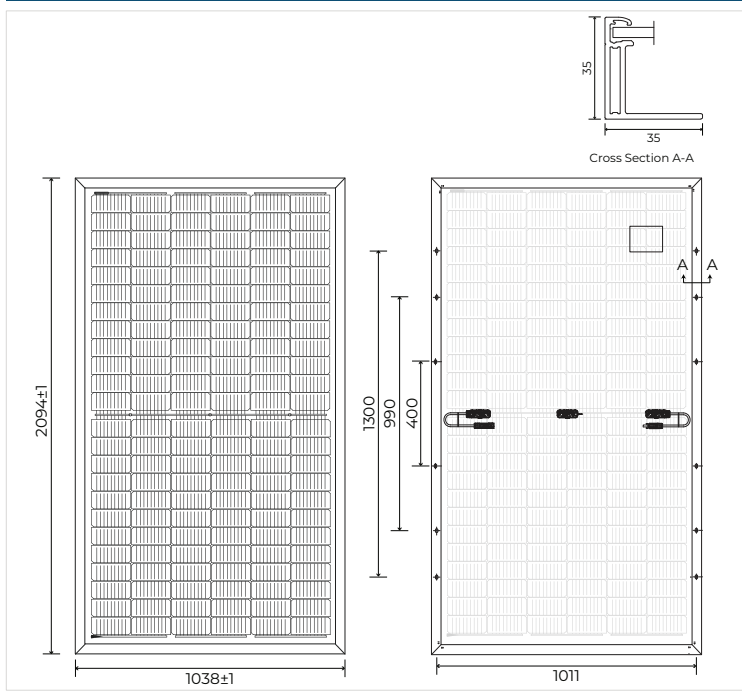
ELECTRICAL SPECIFICATIONS	SOLAR PANEL M440-H1H	I-V CURVES
<b>Test Conditions</b>	<b>STC</b>	
Module Power (Pmax)	440W	
Maximum Power Voltage (Vpmax)	41.54V	
Maximum Power Current (Ipmax)	10.60A	
Open Circuit Voltage (Voc)	49.39V	
Short Circuit Current (Isc)	11.24A	
Module Efficiency	20.2%	
Maximum System Voltage (VDC)	1500V (IEC/UL)	
Series Fuse Rating	25A	
Power & Other Electrical Specification Tolerance	5%	
Application Classification	Class A	
Measurement Conditions: STC 1000 W/m² - AM 1.5 - Temperature 25°C		

MECHANICAL PROPERTIES	METRIC	IMPERIAL
Module Weight	24 ± 3% kg	52.9 ± 3% lbs
Dimensions (H x L x D)	2094 x 1038 x 35mm	82.4 x 40.8 x 1.3in
Maximum Surface Load (Wind / Snow)	5400Pa rear load / 2400Pa front load	112.8psf rear load / 50.1psf front load
Hail Impact Resistance	Ø 25mm at 83 km/h	Ø 1in at 51.6 mph
Cells	144 (72x2) Mono-crystalline half cell (166 x 166mm)	144 (72x2) Mono-crystalline half cell (6.53 x 6.53in)
Glass	3.2mm tempered glass, high transmittance, anti-reflective coating	0.126in tempered glass, high transmittance, anti-reflective coating
Cables & Connectors (Refer to Installation Manual)	300mm - 4mm², 12 AWG (UL) MC4	11.8in - 0.16in², 12 AWG (UL) MC4
Backsheet	High durability, UV resistant, PV backsheet	
Frame	Anodized aluminum alloy black frame	
Bypass Diodes	3 diodes	
Junction Box	IP68 rated, TUV and UL certified	
Fire Rating	Type I	

TEMPERATURE RATINGS	
Temperature Coefficient Isc	0.05% /°C
Temperature Coefficient Voc	-0.22% /°C
Temperature Coefficient Pmax	-0.35% /°C
Nominal Module Operating Temperature	45 ± 2°C
Operating Temperature	-40°C ~ +85°C

SHIPPING	
Modules Per Pallet	31 / 34
Pallets Per Truck	22
Modules Per Truck	715

### ENGINEERING DRAWING



### WARRANTY

Product Warranty: 25 years  
Performance Warranty:

- ≥97.5% enF of 1st year
- ≥ 92% end of 12th year
- ≥ 86% end of 25th year

### CERTIFICATIONS

UL 61730-1/-2, UL 61215-1/-2, CEC Listed

- Datasheet is subjected to change without prior notice, always obtain the most recent version of the datasheet.
- Caution: For professional use only, the installation, handling, and cleaning of PV modules should only be performed by qualified professionals. Read the Installation Manual for mounting specifications before handling, installing and operating modules.

Learn More: [mitrex.com](http://mitrex.com) [info@mitrex.com](mailto:info@mitrex.com)

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