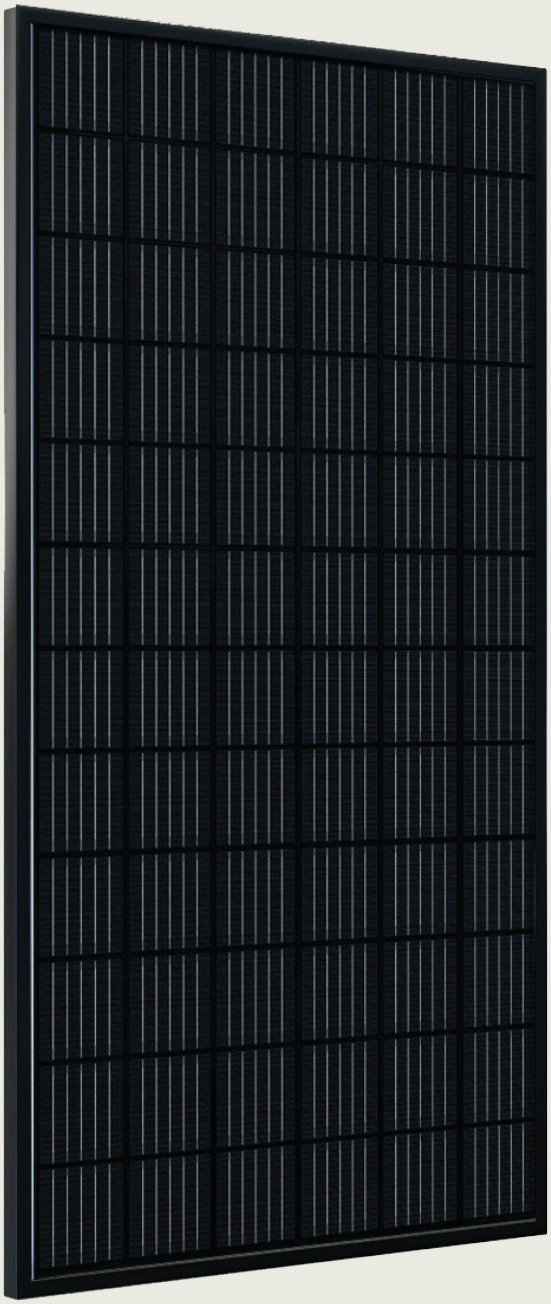
M390-A1F

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 And 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 And Performance Warranty**

  Made in North America, 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.

PRODUCT PERFORMANCE 25 YEAR WARRANTY

MADE IN NORTH AMERICA CERTIFIED

GUARANTEE HIGH EFFICIENCY

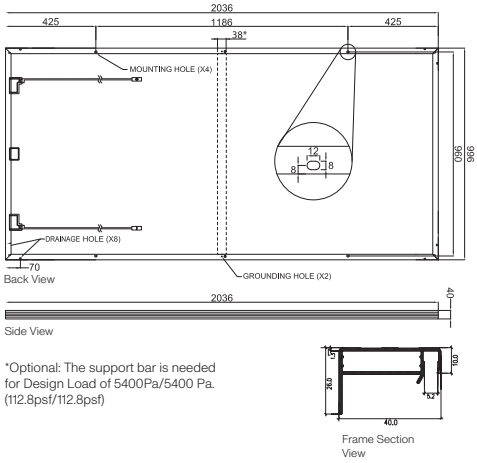
MITREX

Electrical Specifications

Test Conditions	STC
Module Power (Pmax)	390W
Maximum Power Voltage (Vpmax)	41.9V
Maximum Power Current (Ipmax)	9.31A
Open Circuit Voltage (Voc)	48.2V
Short Circuit Current (Isc)	9.97A
Module Efficiency	19.2%
Maximum System Voltage (VDC)	1000V (IEC/UL)
Series Fuse Rating	20A
Power & Other Electrical Specification Tolerance	5%
Application Classification	Class A

Measurement Conditions: STC 1000 W/m² - AM 1.5 - Temperature 25°C

Engineering Drawing



*Optional: The support bar is needed for Design Load of 5400Pa/5400 Pa. (112.8psf/112.8psf)

Frame Section View

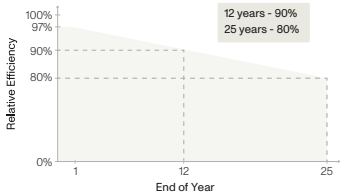
Mechanical Properties

	Metric	Imperial
Module Weight	22 kg	48.5 lbs
Dimensions (H x L x D)	2036 × 996 × 40mm	80.2 × 39.2 × 1.6in
Design Load	5400Pa front load / 5400Pa rear load or 5400Pa front load / 2400Pa rear load*	112.8psf front load / 112.8psf rear load or 112.8psf front load / 50.1psf rear load*
Hail Impact Resistance	ø 25mm at 83 km/h	ø 1in at 51.6 mph
Cells	72 [12×6] Mono-crystalline (158.75 × 158.75mm)	72 [12×6] Mono-crystalline (6.25 × 6.25in)
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, 1000mm, 1200mm - 4mm2, 12 AWG (UL) MC4 from Staubli	11.8in, 39.4in, 47.2in - 0.16in2, 12 AWG (UL) MC4 from Staubli
Backsheet	High durability, UV resistant, PV backsheet	
Frame	Anodized aluminum alloy black frame	
Bypass Diodes	3 diodes- 30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)	
Junction Box	IP68 rated, TUV and UL certified	
Fire Rating	Type II	

Temperature Ratings

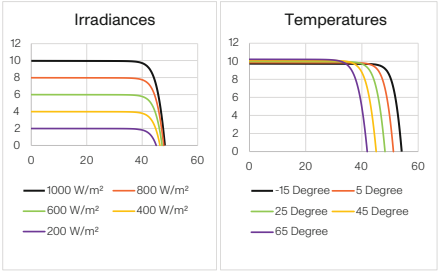
Temperature Coefficient Isc	0.037% /°C
Temperature Coefficient Voc	-0.27% /°C
Temperature Coefficient Pmax	-0.36% /°C
Nominal Module Operating Temperature	45 ± 3°C
Operating Temperature	-40°C ~ +85°C

Warranty



Product Material Warranty: 25 years
Perfomance Warranty: 25 years
≥ 97% end of 1st year
≥ 90% end of 12th year
≥ 80% end of 25th year

I-V Curves



Shipping

Modules Per Pallet	25
Pallets Per Truck	28
Modules Per Truck	700

Certifications

- UL 61730-1/-2, CSA C22.2 #61730-1/-2, IEC 61730-1/-2, UL 61215-1/-2, IEC 61215-1/-2, CSA 61215-1/-2, CEC Listed

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