# HIGH EFFICIENCY MONO COLOURED PV MODULE



THE WORLD'S LARGEST BIPV MANUFACTURER



## 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.

















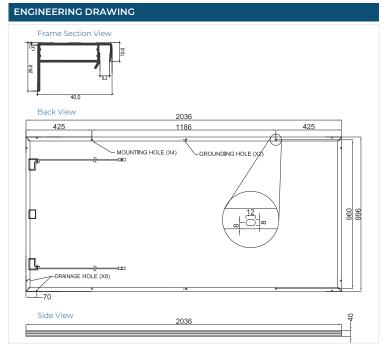


ELECTRICAL SPECIFICATIONS	SOLAR ROOF BROWN ASPHALT	I-V CURVES
Test Conditions	STC	
Module Power (Pmax)	310W	
Maximum Power Voltage (Vpmax)	40.6V	
Maximum Power Current (Ipmax)	7.64A	10 8
Open Circuit Voltage (Voc)	48.5V	6 6
Short Circuit Current (Isc)	8.03A	2 2
Module Efficiency	15.3%	0 20 40 60 0 20 40 60
Maximum System Voltage (VDC)	1000V (IEC/UL)	
Series Fuse Rating	20A	200 W/m^265 Degree Irradiances Temperatures
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	22 kg	48.5 lbs		
Dimensions (H x L x D)	2036 x 996 x 40mm	80.2 x 39.2 x 1.6in		
Mechanical Test Load (Snow/Wind)	5400Pa front load / 5400Pa rear load	112.8psf front load / 112.8psf rear load		
Hail Impact Resistance	ø 25mm at 83 km/h	ø lin at 51.6 mph		
Cells	72 [12x6] Mono-crystalline (158.75 x 158.75mm) 72 [12x6] Mono-crystalline (6.25 x 6.25			
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		
Pattern Orientation	Landscape & Portrait			
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			

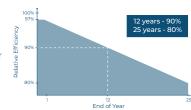
TEMPERATURE RATINGS		SHIPPING	SHIPPING	
Temperature Coefficient Isc	0.029% /°C	Modules Per Pallet	25	
Temperature Coefficient Voc	-0.27% /°C	Pallets Per Truck	28	
Temperature Coefficient Pmax	-0.36% /°C	Modules Per Truck	700	
Nominal Module Operating Temperature	42 ± 3°C			
Operating Temperature	-40°C ~ +85°C			



#### WARRANTY

Product Warranty: 25 years Perfomance Warranty:

- ≥ 97% end of 1st year ≥ 90% end of 12th year
- ≥ 80% end of 25th year



### 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

- 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.

