## HIGH EFFICIENCY MONO 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.







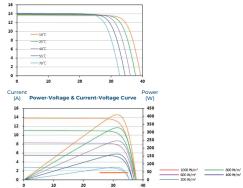








ELECTRICAL SPECIFICATIONS	SOLAR PANEL M405-L3H / M405-I3H	
Test Conditions	STC	c
Module Power (Pmax)	405W	
Maximum Power Voltage (Vpmax)	31.11V	
Maximum Power Current (Ipmax)	13.02A	
Open Circuit Voltage (Voc)	37.55V	
Short Circuit Current (Isc)	13.73A	
Module Efficiency	21%	
Maximum System Voltage (VDC)	1500V (IEC/UL)	
Series Fuse Rating	25A	
Power & Other Electrical Specification Tolerance	5%	
Application Classification	Class A	
Measurement Conditions: STC 1000 W/m² - AM 15 - Temperatur	o 25°C	



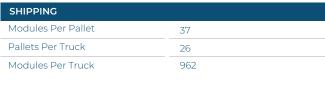
I-V CURVES

Current-Voltage Curve

**ENGINEERING DRAWING** 

MECHANICAL PROPERTIES	METRIC	IMPERIAL	
Module Weight	20.5 ± 1 kg	45.2 ± 2.2 lbs	
Dimensions (H x L x D)	1722 x 1134 x 30mm	67.8 x 44.6 x 1.2in	
Maximum Surface Load (Wind / Snow)	5400Pa rear load / 5400Pa front load	112.8psf rear load / 112.8psf front load	
Hail Impact Resistance	ø 25mm at 83 km/h	ø lin at 51.6 mph	
Cells	108 [(6x9)x2] Mono-crystalline half cell (182 x 182mm)	108 [(6x9)x2] Mono-crystalline (7.16 x 7.16in)	
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 - 0.16 in², 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	Туре І		

TEMPERATURE RATINGS		SHIPPING	
Temperature Coefficient Isc	0.054% /°C	Modules Per Pallet	3
Temperature Coefficient Voc	-0.262% /°C	Pallets Per Truck	2
Temperature Coefficient Pmax	-0.341% /°C	Modules Per Truck	9
Nominal Module Operating Temperature	42.5 ± 2°C		
Operating Temperature	-40°C ~ +85°C		

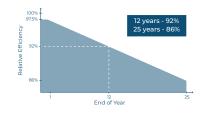


# 30 Cross Section A-A 1722±1 1150±1 1134±1 1098+3

#### WARRANTY

Product Warranty: 25 years Perfomance Warranty:

- ≥ 97.5% end 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.

