

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



**M405-L3H
M405-I3H**



ELECTRICAL SPECIFICATIONS	SOLAR PANEL M405-L3H / M405-I3H	I-V CURVES
Test Conditions	STC	
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/m ² - AM 1.5 - Temperature 25°C		

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 1in 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 - 4mm ² , 12 AWG (UL) MC4	11.8in - 0.16 in ² , 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	SHIPPING
Temperature Coefficient Isc	0.054% /°C
Temperature Coefficient Voc	-0.262% /°C
Temperature Coefficient Pmax	-0.341% /°C
Nominal Module Operating Temperature	42.5 ± 2°C
Operating Temperature	-40°C ~ +85°C
Modules Per Pallet	37
Pallets Per Truck	26
Modules Per Truck	962

ENGINEERING DRAWING	WARRANTY
<p>Cross Section A-A</p>	<p>Product Warranty: 25 years Performance Warranty:</p> <ul style="list-style-type: none"> ≥ 97.5% end of 1st year ≥ 92% end of 12th year ≥ 86% end of 25th year
CERTIFICATIONS	
<p>UL 61730-1/-2, UL 61215-1/-2, CEC Listed</p> <ul style="list-style-type: none"> - 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. 	
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