

M405-L3H / M405-I3H

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.



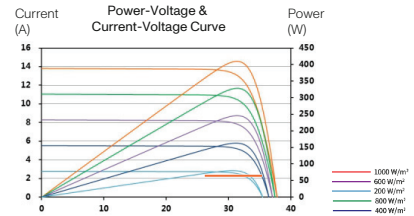
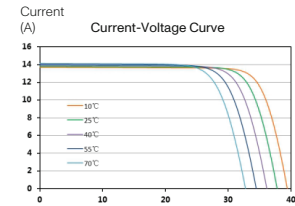
260323 - V1

Electrical Specifications

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/m² - AM 1.5 - Temperature 25°C

I-V Curves



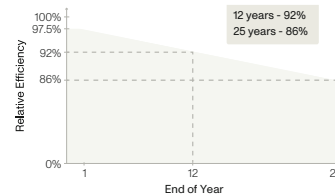
Mechanical Properties

Module Weight	20.5 ± 1 kg	45.2 ± 2.2 lbs
Dimensions (H x L x D)	1722 × 1134 × 30mm	67.8 × 44.6 × 1.2in
Maximum Surface Load (Wind / Snow)	5400Pa front load / 5400Pa rear 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 [(6×9)×2] Mono-crystalline half cell (182 × 182mm)	108 [(6×9)×2] Mono-crystalline (7.16 × 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)	1200mm - 4mm ² , 12 AWG (UL) MC4	47.24in - 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

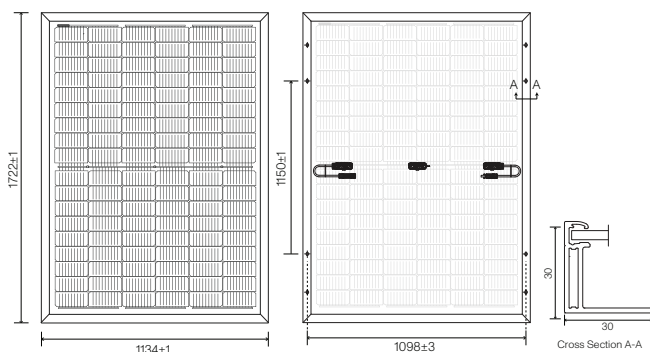
Temperature Coefficient Isc	0.054% /°C
Temperature Coefficient Voc	-0.262% /°C
Temperature Coefficient Pmax	-0.341% /°C
Nominal Module Operating Temperature	45 ± 2°C
Operating Temperature	-40°C ~ +85°C

Warranty



Product Material Warranty: 25 years
Performance Warranty: 25 years
≥ 97.5% end of 1st year
≥ 92% end of 12th year
≥ 86% end of 25th year

Engineering Drawing



Shipping

Modules Per Pallet	37
Pallets Per Truck	24
Modules Per Truck	888

Certifications

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

Datasheet is subject 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.