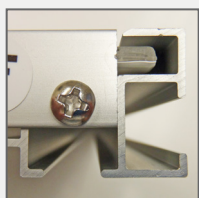


## 10W Photovoltaic Module 10M-V

Ameresco Solar's line of solar modules certified for hazardous locations is the direct result of over four decades of design, manufacturing, and proven field use.

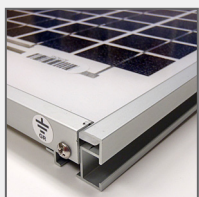
Our use of quality materials, rigorous testing, and process control delivers a solar module with optimized life and electrical energy production that our industrial customers depend on.

From mountaintops to off-shore platforms, weather stations in the bitter cold of Antarctica to telephone signal repeaters in the hot Australian outback, our modules perform in the harshest environments.



### Multiple mounting possibilities

Multimount frame allows even greater flexibility in mounting. Positioned parallel to the edge and back of the module, its dual channels accept either M8 or 5/16" hex-head bolts, allowing the module to be mounted from the side or back.



### Easier bolt management

Bolts may be located anywhere along the channels; the channel groove is specially designed to prevent the bolt from rotating when tightening, allowing installation with just one wrench.



### Long cable for easier battery connections

A 4.6 meter PVC-jacketed AWG 18-2 polarized cable is potted into the fully sealed junction box located on the module back. The module's electrical connections are sealed for prevention against corrosion and moisture penetration.

### Quality and certifications



UL61730-1, UL61730-2, UL61215-1, UL61215-1-1, UL61215-2, CSA C22.2 No. 61730-1, CSA C22.2 No. 61730-2



UL121201, CSA C22.2 No. 213 Class I, Division 2 Groups A, B, C, D



EN / IEC 61730-1, EN / IEC 61730-2, EN / IEC 61215-1, EN / IEC 61215-1-1, EN / IEC 61215-2



Conforms with European Directive 2014/35/EU

ISO 9001

ISO 14001

ISO9001 and ISO14001 factory certifications ensure that our facilities use proven manufacturing and quality control processes, and maintain environmental integrity.

Photographs are intended to portray typical module appearance, actual module appearance may vary.

### Electrical characteristics

	1) STC 1000W/m <sup>2</sup>	2) NMOT 800W/m <sup>2</sup>
Maximum power (P <sub>max</sub> )	10W	7.2W
Voltage at Pmax (V <sub>mpp</sub> )	18.1V	16.2V
Current at Pmax (I <sub>mpp</sub> )	0.55A	0.44A
Short circuit current (I <sub>sc</sub> )	0.62A	0.51A
Open circuit voltage (V <sub>oc</sub> )	21.8V	19.7V
Module efficiency	8.8%	
Tolerance (P <sub>max</sub> )	-0/+3%	
Nominal voltage	12V	
Efficiency reduction at 200W/m <sup>2</sup>	<5% reduction (efficiency 8.4%)	
Limiting reverse current	0.62A	
Temperature coefficient of I <sub>sc</sub>	0.105%/°C	
Temperature coefficient of V <sub>oc</sub>	-0.360%/°C	
Temperature coefficient of (P <sub>max</sub> )	-0.45%/°C	
(3) NMOT	47±2°C	
Maximum series fuse rating	1A	
Maximum system voltage	50V	

1: Values at Standard Test Conditions (STC): 1000W/m<sup>2</sup> irradiance, AM1.5 solar spectrum and 25°C module temperature. 2: Values at 800W/m<sup>2</sup> irradiance, Nominal Module Operation Temperature (NMOT) and AM1.5 solar spectrum. 3: Nominal Module Operation Temperature: Module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C air temperature, 1m/s wind speed.

### Mechanical characteristics

Solar cells	36 crystalline silicon cells in series
Front cover	High transmission 3.2mm (1/8th in) glass
Encapsulant	EVA
Back cover	White polyester
Frame	Silver anodized aluminum
Junction box	Lo-Pro junction box
Output cables	AWG#18 (0.75mm <sup>2</sup> ) 2 core, ITC / PLTC Lengths 4572mm / 15 ft. ("+" red; "-" black)
Dimensions	421 x 269 x 22.5mm / 16.57 x 10.58 x 0.89in
Weight	1.5kg / 3.3lbs

All dimensional tolerances within ±1% unless otherwise stated.

### Certifications

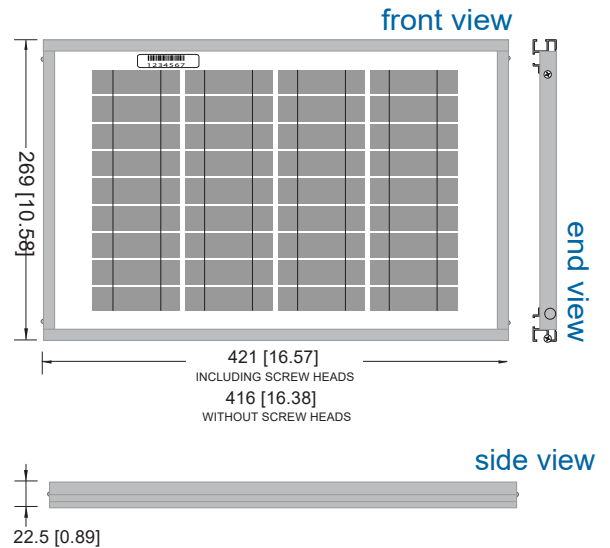
Conforms to ANSI/UL Standard UL61730-1:2017 Ed. 1+R:30Apr2020, UL61730-2:2017 Ed. 1+R:30Apr2020, UL61215-1:2017 Ed. 1, UL61215-1-1:2017 Ed. 1 and UL61215-2:2017 Ed. 1  
Certified to CAN/CSA Standard C22.2 No. 61730-1:2019 Ed. 2 and C22.2 No. 61730-2:2019 Ed. 2

Conforms to ANSI/UL Standard UL121201:2017 Ed.9+R:26Aug2019  
Certified to CAN/CSA Standard C22.2 No. 213:2017 Ed.3+U1;U2  
Class 1, Division 2, Groups A, B, C and D

Certified in accordance with IEC61730-1:2016, IEC61730-2:2016, EN/IEC61730-1:2018, EN/IEC61730-2:2018, IEC61215-1:2016, IEC61215-2:2016 and IEC61215-1-1:2016, EN 61215-1:2016, EN 61215-1-1:2016 and EN 61215-2:2017

Conforms with European Directive 2014/35/EU

### Dimensions



Dimensions in mm [in].

### Warranty\*

- Defect-free in materials and workmanship for 2 years
- 90% min. power output over 12 years
- Optional 25 years available

\* Refer to warranty document for terms and conditions.

**For more information,  
call 1-855-437-6527  
or visit [amerescosolar.com](http://amerescosolar.com).**

This publication summarises product warranty and specifications which are subject to change without notice. © 2024 Ameresco, Inc. Ameresco and the Ameresco logo, the orb symbol and the tagline "Green. Clean. Sustainable." are registered in the U.S. Patent and Trademark Office. All rights reserved. 06/25/2024.