

10W Photovoltaic Module 10J-V

The 10J-V 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.



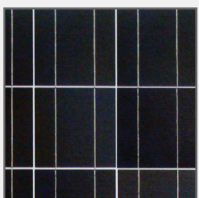
Accessible junction box

J-type junction box has accessible terminals for easier module interconnections in off-grid applications, and it allows fitting cable glands for various sections.



Durable scratch-resistant back sheet

The thick back sheet provides extra insulation and increased resistance to protect your module against rough handling. Made of white polyester, it ensures longer term performance and increased energy production.



High reliability

Cell interconnections and diode placement use well-established industry practice and are field-proven to provide excellent reliability.

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

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

ISO 14001

Electrical characteristics

	1) STC 1000W/m ²	2) NMOT 800W/m ²
Maximum power (P _{max})	10W	7.2W
Voltage at P _{max} (V _{mpp})	18.1V	16.2V
Current at P _{max} (I _{mpp})	0.55A	0.44A
Short circuit current (I _{sc})	0.62A	0.51A
Open circuit voltage (V _{oc})	21.8V	19.7V
Module efficiency		8.8%
Tolerance (P _{max})		-0/+3%
Nominal voltage		12V
Efficiency reduction at 200W/m ²	<5% reduction (efficiency 8.4%)	
Limiting reverse current		0.62A
Temperature coefficient of I _{sc}		0.105%/°C
Temperature coefficient of V _{oc}		-0.360%/°C
Temperature coefficient of (P _{max})		-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/m² irradiance, AM1.5 solar spectrum and 25°C module temperature. 2: Values at 800W/m² irradiance, Nominal Module Operation Temperature (NMOT) and AM1.5 solar spectrum. 3: Nominal Module Operation Temperature: Module operation temperature at 800W/m² 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	IP65 with 4 terminal screw connection block; accepts PG 13.5, M20 13mm (1/2") conduit, or cable fittings accepting 6-12mm diameter cable. Terminals accept 2.5-10mm ² (8-14 AWG) wire
Dimensions	425 x 273 x 50mm / 16.73 x 10.74 x 1.97in
Weight	1.9kg / 4.2lbs

All dimensional tolerances within ±1% unless otherwise stated.

Certifications

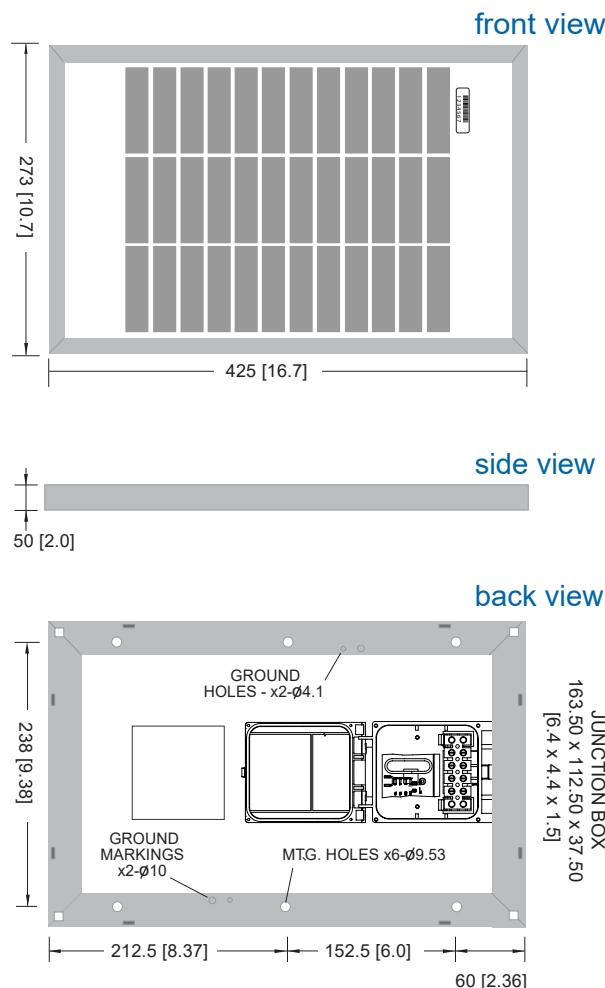
Conforms to ANSI/UL Standard UL61730-1:2017 Ed. 1+R:30Apr2020, UL61730-2:2017 Ed. 1+R:30Apr2020, UL61215-1:2017 Ed. 1, UL61215-1-1:2017 Ed. 1 and UL61215-2:2017 Ed. 1
 Certified to CAN/CSA Standard C22.2 No. 61730-1:2019 Ed. 2 and C22.2 No. 61730-2:2019 Ed. 2

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.

