

HAZLOC Certified Solar Panels

C1D2 Certified for Hazardous Locations (HazLoc)

AMERESCO  SOLAR

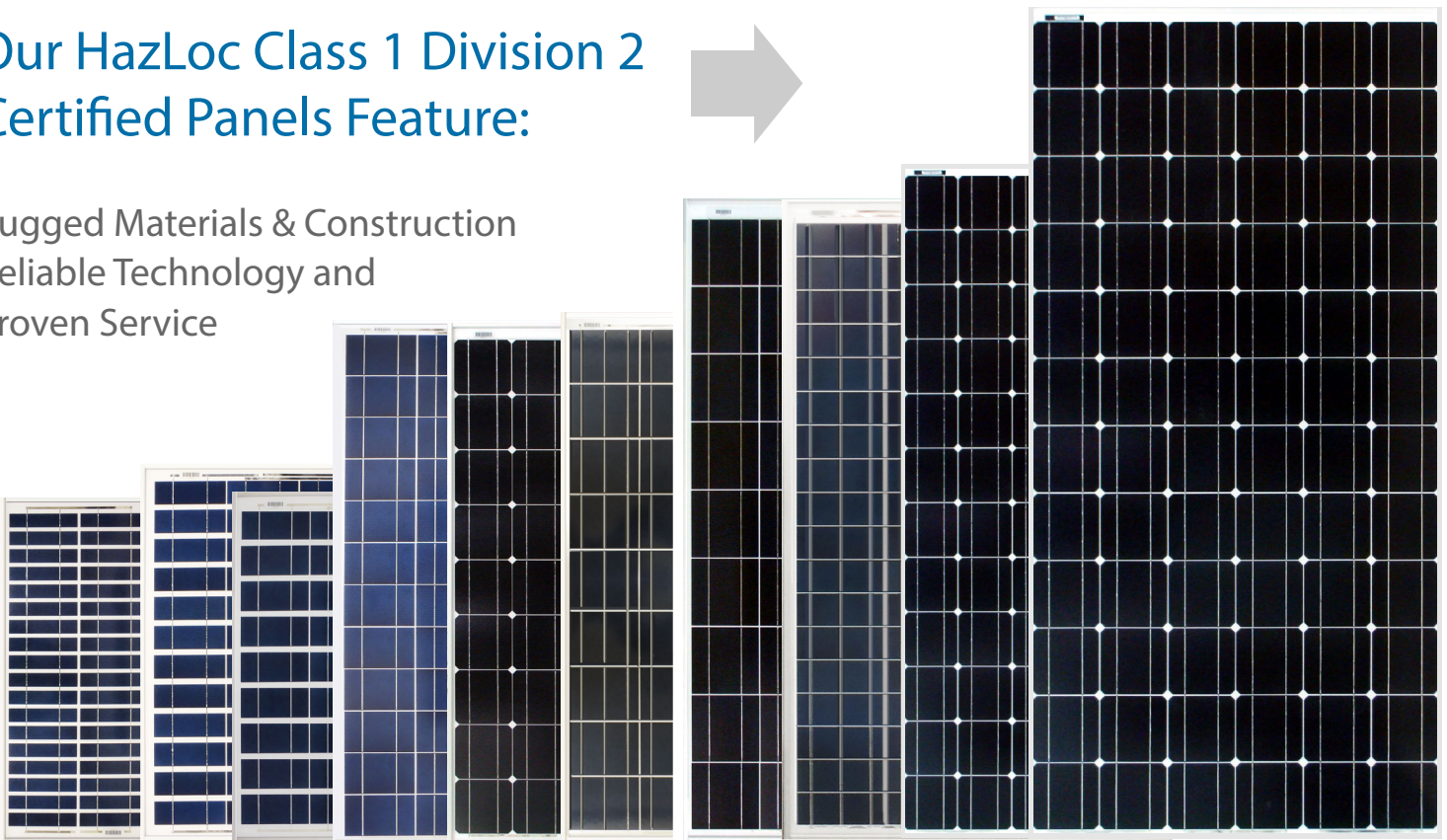
Ameresco Solar's line of HazLoc Certified Solar Panels are direct result of over four decades of design, manufacturing, and proven field use in hazardous locations.

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 offshore platforms, weather stations in Antarctica to telecommunication signal repeaters in the Australian outback, our modules perform in the harshest environments

Our HazLoc Class 1 Division 2 Certified Panels Feature:

Rugged Materials & Construction
Reliable Technology and
Proven Service



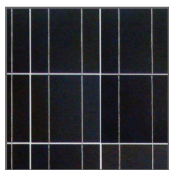
Additionally, our HazLoc Certified Solar Panels are designed to integrate with our HazLoc Certified C1D2 System (enclosure and internal electronics) that are available in a small, medium, and large sizes with multiple battery and array configurations.

Together these HazLoc certified panels and systems can be **customized to accommodate** various battery type and capacity needs, wattage requirements, and mounting structure demands.



1-855-437-6527

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High reliability

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



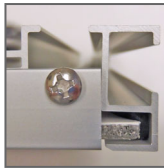
Accessible junction box

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 back sheet

The thick back sheet provides extra insulation, increased resistance, and greater protection. Made of white polyester, it ensures longer term performance and increased energy production.



Mounting options

M-Models have a multi-mount frame that allows even greater flexibility in mounting. Parallel positioned dual channels accept M8 or 5/16" hex-head bolts allowing the module to be mounted from the side or back.

Mechanical characteristics

Solar cells	36 or 72 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
Connections	J-Model: IP65 junction box 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 M-Model: Lo-pro junction box with output cables - AWG#18 (0.75mm ²) 2 core, ITC PLTC Lenth 4572mm / 15ft ("+" red, "-" black)

Warranty*

- Defect-free in materials and workmanship for 2 years
- 90% minimum power output over 12 years
- Optional 25 years available *Refer to warranty document for terms and conditions.

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

HazLoc Certified Panel Specifications

Model	Nominal Volts	Cells No.	Pmax Watts	Vmpp Volts	Imp Amps	Voc Volts	Isc Amps	Max Series Fuse Rating	Max System Voltage (UL) Volts	Dimensions** (L x W x D) mm/in	Weight kg/lbs	J-box*** Type
05M-V	12	36	5	18.10	0.28	21.80	0.31	1	80	251 x 269 x 23 / 9.9 x 10.6 x 0.9	0.8 / 1.7	n/a
10M-V	12	36	10	18.10	0.55	21.80	0.62	1	80	421 x 269 x 23 / 16.6 x 10.6 x 0.9	1.5 / 3.3	n/a
20M-V	12	36	20	18.20	1.10	22.00	1.20	3	80	421 x 501 x 23 / 16.6 x 19.7 x 0.9	2.5 / 5.5	n/a
10J-V	12	36	10	18.10	0.55	21.80	0.62	1	80	425 x 273 x 50 / 16.73 x 10.74 x 2	1.9 / 4.2	A-1
20J-V	12	36	20	18.20	1.10	22.00	1.20	3	80	425 x 502 x 50 / 16.7 x 19.8 x 2	3.0 / 6.0	A-1
30J-V	12	36	30	18.20	1.65	22.10	1.75	5	80	790 x 358 x 50 / 31.1 x 14.1 x 2	3.9 / 8.6	A-1
40J-V	12	36	40	18.20	2.20	22.00	2.37	6	80	650 x 537 x 50 / 25.6 x 21.1 x 2	5.8 / 12.7	A-1
50J-V	12	36	50	18.90	2.65	22.30	2.80	8	80	835 x 537 x 50 / 32.8 x 21.1 x 2	6.0 / 13.2	A-2
60J-V	12	36	60	18.20	3.29	22.00	3.56	8	80	835 x 537 x 50 / 32.8 x 21.1 x 2	6.0 / 13.2	A-2
65J-V	12	36	65	17.90	3.63	22.10	3.77	10	1500	790 x 674 x 50 / 31.1 x 26.5 x 2	6.4 / 14.1	A-2
90J-V	12	36	90	18.90	4.76	22.30	5.04	20	1500	1204 x 537 x 50 / 47.4 x 21.1 x 2	7.7 / 17.0	A-2
90JB-V	24	72	90	35.80	2.52	44.20	2.61	20	80	1204 x 537 x 50 / 47.4 x 21.1 x 2	7.7 / 17.0	A-1
100J-V	12	36	100	19.15	5.22	22.75	5.58	20	1500	1204 x 537 x 50 / 47.4 x 21.1 x 2	7.7 / 17.0	A-2
120J-V	12	36	120	18.20	6.60	22.00	7.12	20	1500	1223 x 674 x 50 / 48.1 x 26.5 x 2	9.98 / 22.0	A-2
120JB-V	24	72	120	36.10	3.33	44.70	3.48	20	80	1223 x 674 x 50 / 48.1 x 26.5 x 2	9.98 / 22.0	A-3
140J-V	12	36	140	17.50	8.00	22.00	8.20	20	1500	1504 x 674 x 50 / 59.2 x 26.5 x 2	12.0 / 26.5	A-2
150J-V	12	36	150	19.10	8.12	23.04	8.78	20	1500	1504 x 674 x 50 / 59.2 x 26.5 x 2	12.0 / 26.5	A-2
180J-V	24	72	180	39.75	4.54	47.09	4.86	20	80	1504 x 674 x 50 / 59.2 x 26.5 x 2	12.0 / 26.4	A-3
200J-V	24	72	200	37.60	5.32	45.30	5.84	20	1500	1587 x 790 x 50 / 62.5 x 31.1 x 2	15.4 / 33.6	A-3
395J-V	24	72	395	42.26	9.35	49.32	9.92	20	1500	1979 x 1002 x 50 / 77.9 x 39.5 x 2	23.8 / 52.5	A-3

Power Tolerance (Pmax): -0/+3%, Max System Voltage (IEC): 1500, Application Class (IEC): A, Fire Performance Type (UL): 4 Fire Resistance Class (IEC): C
All dimensional tolerances within ±1% unless otherwise stated. *Reference Figures C1, C2, and C3 of module instructions.