

450W

AuxinTM
SOLAR MANUFACTURING

Since 2008

We are America's Original Solar Manufacturer

Auxin lives and breathes Made-in-U.S.A. solar products



Cloudy Day Power
Excellent low light performance



Moisture Lock
2x POE for extra moisture protection



High Wind Load
Suitable for extreme weather applications



Certified Reliability
Exceptional PID resistance, Tested to UL 61730



For nearly two decades, Auxin has been fighting the good fight for American-made solar. In that time, we have become the factory that countless brands in the industry rely upon to build their products. This is not least because continuous improvement is one of our core values. Auxin regularly invests in new process technology, latest equipment, latest raw materials and R&D on new circuit design applications for solar.

Production equipment is refreshed every 24 months on critical process steps, components are evaluated and integrated into end product annually, and new material goes through internal reliability testing as well as third-party testing. This dedication means that you can rely upon Auxin products now and in the future.

Trust Auxin expertise and build the most reliable systems for your customers.

Toward the sun
auxinsolar.com

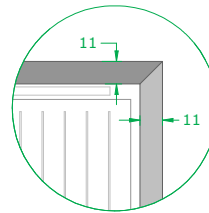
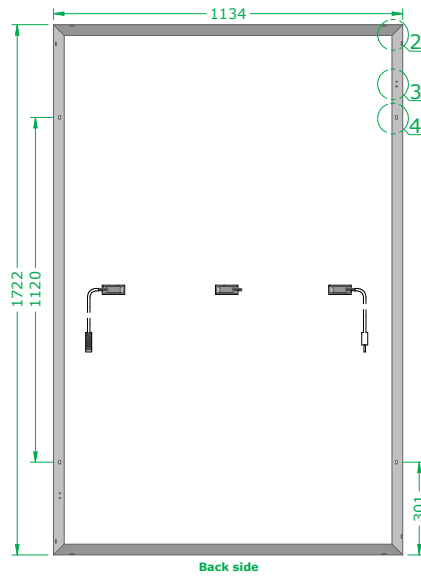
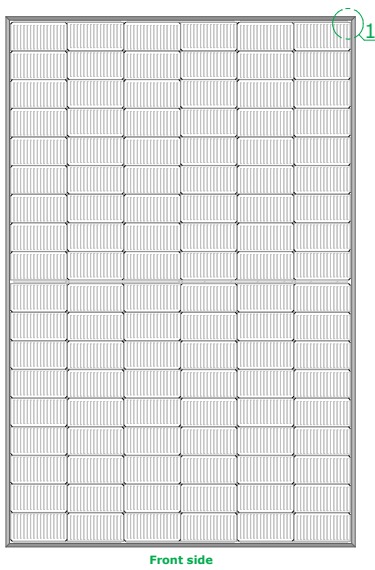


Basic Dimensions

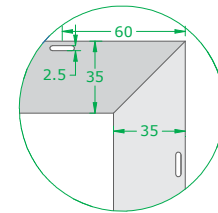
[UNITS: MM]

AXN10M450B

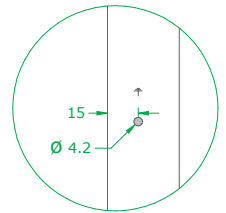
Class Leading 435-450W



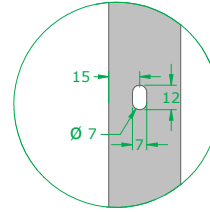
1: Front Corner



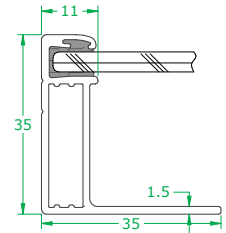
2: Drainage (x8)



3: GND (x2)



4: Mounting (x4)



5: Frame profile

Electrical Specifications

Product Type: AXN10Mxxx (xxx= PMAX)

Power Output (-0/+3%)	P_{max}	W_p	435	440	450
Module Efficiency	%		22.3	22.5	23.1
Open Circuit Voltage	V_{oc}	V	39.56	39.62	39.75
Short Circuit Current	I_{sc}	A	13.79	13.90	14.14
Rated Voltage	V_{mp}	V	33.31	33.37	33.51
Rated Current	I_{mp}	A	13.07	13.19	13.44

Mechanical Data

Solar Cells	n-type mono-crystalline silicon
Cell Orientation	108 half-cut cells
Module Dimension	67.8" x 44.65" x 1.38" 1,722mm x 1,134mm x 35mm
Weight	46.96 lbs. (21.30 kg)
Front Glass	3.2mm tempered, low-iron, anti-reflective
Frame	35mm Anodized
Encapsulant	Polyolefin elastomer (POE)
Junction Box	Protection class IP68 with 3 bypass-diodes
Cable	12AWG 1200mm
Connector	Staubli MC4

*Frame, glass, cables and other components may be customized, ask your sales representative for available options.

Temperature Coefficients

Normal Operating Cell Temperature (NOCT)	45 °C
Temperature Coefficient of P_{max}	-0.29%/ °C
Temperature Coefficient of V_{oc}	-0.25%/ °C
Temperature Coefficient of I_{sc}	+0.05%/ °C

Operating Conditions

Maximum System Voltage	VDC 1500
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	30A
Fire Safety Classification	Type 1
Front & Back Load	Up to 5,400Pa snow and 5,400Pa wind
Hail Safety Impact Velocity	25mm at 23 m/s

Certifications & Tests

UL61730; UL1703



Transport info

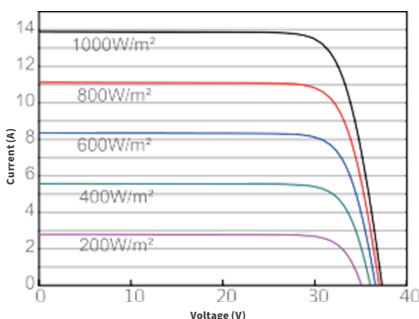
53' Double Stack

Single Pallet [28 solar modules]

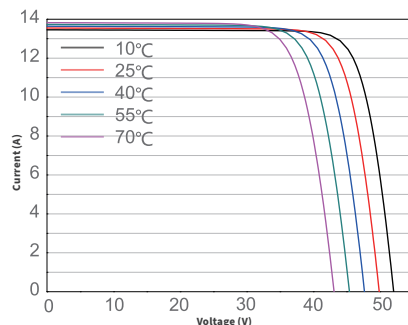
Pallets	Panels	435W Bin	Weight	Width	Height	Length
30	840	382.50 kW	1,360 lbs. (617 kg)	47.25 in (1,200mm)	44.25 in (1,124mm)	70.00 in (1,778mm)

Current-Voltage Curves

AXN10M435: 435W, 108 Half-Cut Cell Module

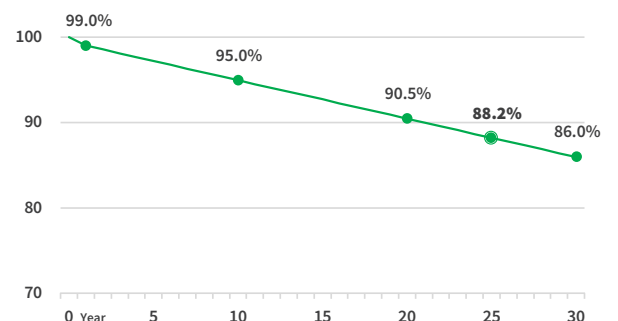


Current-voltage characteristics with dependence on irradiance and module temperature



Power Performance Warranty

0.45% linear degradation after year one (1%)



sales@auxinsolar.com

Auxin Solar, 6835 Via Del Oro, San Jose, CA 95119 Auxin Solar Inc. reserves the right to make specification changes without notice.

108 DC073125 v5.4
©2025 Auxin Solar
Printed in the USA