



SunAlto PM060NT8

N Type TOPCon Mono-Crystalline Dual Glass
Bifacial Photovoltaic Module

480W
~
495W

Power Range
480~495W

N Type
TOPCon

N-Type Module
Advanced TOPCon
Technology delivers
superior module efficiency



Bifacial Energy Yield
The light shining on
the module rear-side with
the increase of energy yield



Multi-Busbar Design
Enhanced module power
output and reliability



Strong Wind Resistance
Dynamic mechanical loading
4 times higher than
the IEC requirement



Solution of Enhanced
Salt Mist and
Humidity Resistance
Reliable in salt mist and
humidity environment



PID-Resistance
Superior PID-Resistance



SunAlto PM060NT8 (480 ~ 495 Wp)

Electrical Data (STC)

	Front		Rear-side		Front		Rear-side		Front		Rear-side	
Bifacial output Rear-side power gain %		5%	10%		5%	10%		5%	10%		5%	10%
Nominal Power (W)	480	504	528	485	509.25	533.5	490	514.5	539	495	519.75	544.5
Module Efficiency (%)	22.2%	23.3%	24.4%	22.5%	23.6%	24.7%	22.7%	23.8%	25.0%	22.9%	24.1%	25.2%
Nominal Voltage V_{mp} (V)	37.00	37.00	37.00	37.16	37.16	37.16	37.31	37.31	37.31	37.46	37.46	37.46
Nominal Current I_{mp} (A)	12.98	13.63	14.28	13.06	13.71	14.37	13.14	13.80	14.45	13.22	13.88	14.54
Open Circuit Voltage V_{oc} (V)	43.43	43.43	43.43	43.63	43.63	43.63	43.83	43.83	43.83	44.03	44.03	44.03
Short Circuit Current I_{sc} (A)	13.87	14.56	15.26	13.94	14.64	15.33	14.01	14.71	15.41	14.08	14.78	15.49

- Above data are the effective measurement at Standard Test Conditions (STC)
- STC : irradiance 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2 °C, in accordance with EN 60904-3
- Measurement tolerances STC : ± 3 %
- Maximum Tolerance of P_N : 0/+3%

Electrical Data (NMOT)

Nominal Power P _N	366W	369W	373W	377W
Nominal Voltage V_{mp} (V)	35.22	35.38	35.52	35.66
Nominal Current I_{mp} (A)	10.38	10.44	10.51	10.57
Open Circuit Voltage V_{oc} (V)	41.62	41.81	42.01	42.20
Short Circuit Current I_{sc} (A)	11.18	11.23	11.29	11.35

- Above data are the effective measurement at Nominal Module Operating Temperature (NMOT)
- NMOT : irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

Temperature Coefficient

NMOT	41 ± 2 °C
Typ. Temperature Coefficient of P _N	-0.30% / °C
Typ. Temperature Coefficient of V_{oc}	-0.26% / °C
Temperature Coefficient of I_{sc}	0.046% / °C

Mechanical Characteristics

Dimensions (L x W x H)	1907 x 1133 x 40mm (75.08 x 44.61 x 1.57 in)*
Weight	28.1 kg (61.95 lbs)
Front Glass	Anti-Reflection Coating, Semi-toughened glass, 2.0mm (0.08 in)
N Type TOPCon Cell	60 monocrystalline solar cells (120 pcs)
Rear Glass	White Grid, Semi-toughened glass, 2.0mm (0.08 in)
Frame	Anodized aluminum frame
Junction Box	IP-68 rated with 3 bypass diodes
Connector Type	1500V : Staubli (MC4) PV-KST4-EVO2A/xy ; PV-KBT4-EVO2A/xy – 1 x 4mm ² (0.04 x 0.16 in ²)

* Module Dimension (L x W) Tolerance : ± 2 mm (0.08 in)

Operating Conditions

Operating Temperature	-40 ~ +70 °C *
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage	1500 V
Serial Fuse Rating	30 A
Front / Rear Test Load	6000 Pa / 5400 Pa
Max. Dynamic Mechanical Load	4800 Pa
Safety Class	II
Bifacial Factor	80% +/- 10%

* According to the latest regulations version of IEC 61730-1:2023

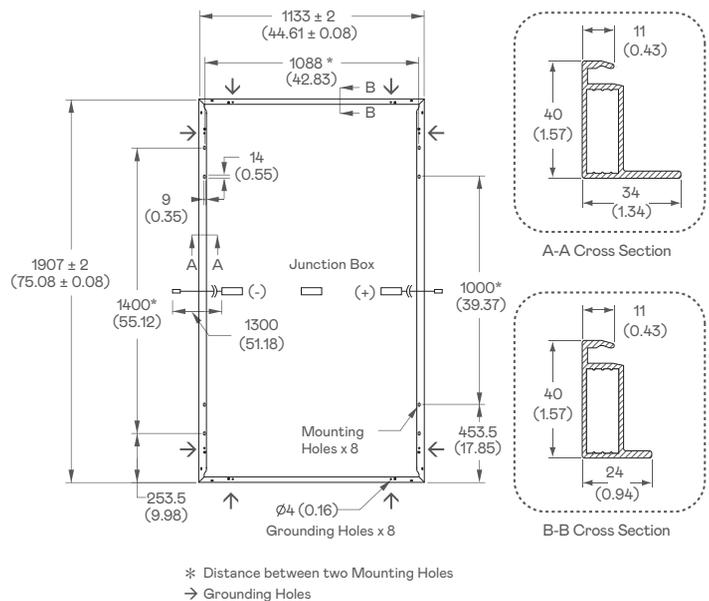
Warranties and Certifications

Product Warranty	Maximum 12 years for material and workmanship
Performance Guarantee	Guaranteed linear degradation to 89.4% for 25 years **
Certifications	According to IEC/EN 61215 and IEC/EN 61730 guidelines **

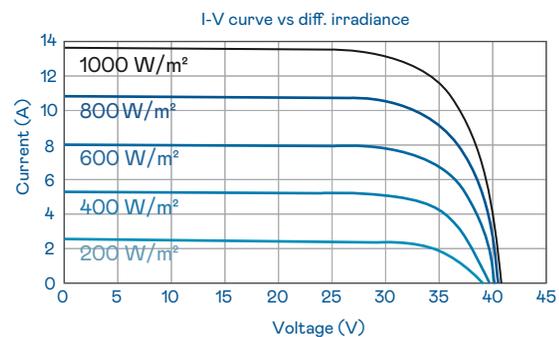
* 1 : Please refer to warranty letter for detail

* 2 : Please confirm other certifications with official dealers

Dimensions mm (inch)



I-V Curve



Current/voltage characteristics with dependence on irradiance and module temperature.

This datasheet complies with the EN 50380 requirements.

Packing Configuration

Container	20' GP	40' GP	40' HQ
Pieces per Pallet	26	26	26
Pallets per Container	6	12	24
Pieces per Container	156	312	624



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About AUO Corporation

AUO Corporation (AUO) is one of the world's leading providers of optoelectronic solutions. In addition to its strengths in product and technological innovation, AUO stresses its commitment to going green and to utilizing manufacturing excellence to develop reliable and high quality energy solutions for residential, commercial, and utility segments.

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