



SunBravo PM060MT8

Mono-Crystalline Bifacial (Glass/Transparent Back sheet) Photovoltaic Module

440W
460W

Power Range
440~460 W



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



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



PID-Resistance
Superior PID-Resistance



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



SunBravo PM060MT8 (440 ~ 460 Wp)

Electrical Data (STC)

	Front		Rear-side		Front		Rear-side		Front		Rear-side		Front		Rear-side	
Bifacial output Rear-side power gain %			5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Nominal Power (W)	440	462	484	445	467.25	489.5	450	472.5	495	455	477.75	500.5	460	483	506	
Module Efficiency (%)	20.4%	21.4%	22.4%	20.6%	21.6%	22.7%	20.8%	21.9%	22.9%	21.1%	22.1%	23.2%	21.3%	22.4%	23.4%	
Nominal Voltage V_{mp} (V)	33.82	33.82	33.82	33.96	33.96	33.96	34.11	34.11	34.11	34.25	34.25	34.25	34.40	34.40	34.40	
Nominal Current I_{mp} (A)	13.01	13.66	14.31	13.11	13.77	14.42	13.20	13.86	14.52	13.29	13.95	14.62	13.38	14.05	14.72	
Open Circuit Voltage V_{oc} (V)	40.90	40.90	40.90	41.05	41.05	41.05	41.20	41.20	41.20	41.35	41.35	41.35	41.50	41.50	41.50	
Short Circuit Current I_{sc} (A)	13.68	14.36	15.05	13.76	14.45	15.14	13.84	14.53	15.22	13.92	14.62	15.31	14.00	14.70	15.40	

- 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 PN : 0/+3%

Electrical Data (NMOT)

Nominal Power P_N	332W	336W	340W	344W	347W
Nominal Voltage V_{mp} (V)	31.90	32.10	32.20	32.30	32.50
Nominal Current I_{mp} (A)	10.41	10.48	10.55	10.63	10.70
Open Circuit Voltage V_{oc} (V)	39.00	39.10	39.30	39.40	39.60
Short Circuit Current I_{sc} (A)	11.05	11.11	11.18	11.24	11.31

- 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	-0.35% / °C
Typ. Temperature Coefficient of V_{oc}	-0.29% / °C
Temperature Coefficient of I_{sc}	0.06% / °C

Mechanical Characteristics

Dimensions (L x W x H)	1907 x 1133 x 40mm (75.08 x 44.61 x 1.57 in)*
Weight	24.1 kg (53.13 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm (0.13 in)
Cell	60 monocrystalline solar cells (120 pcs)
Back Sheet	White Grid Composite film
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 ~ +85 °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	70% +/-5%

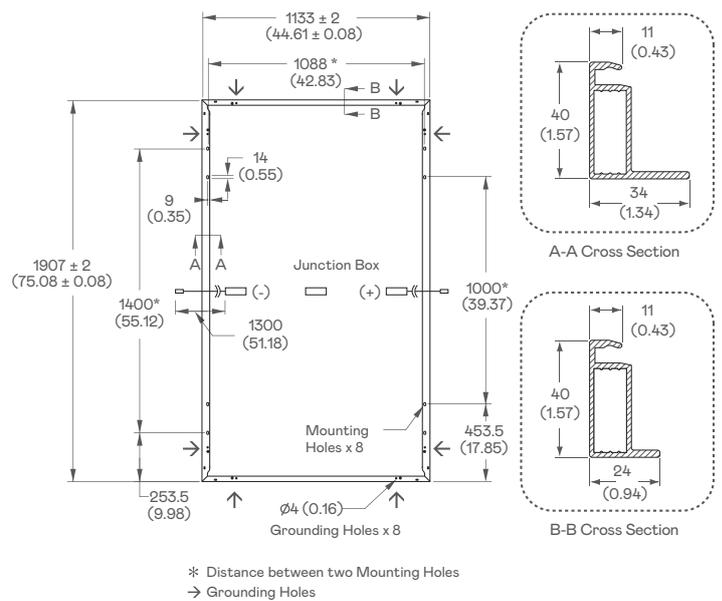
Warranties and Certifications

Product Warranty	Maximum 12 years for material and workmanship
Performance Guarantee	Guaranteed linear degradation to 85% for 25 years ^{*1}
Certifications	According to IEC/EN 61215 and IEC/EN 61730 guidelines ^{*2}

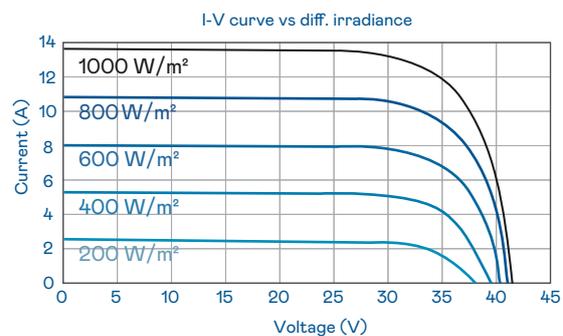
* 1 : Please refer to warranty letter for detail

* 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



Energy.AUO.com

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.

© Copyright August 2024 AUO Corporation. All rights reserved. Information may change without notice. This datasheet is printed with Soy Ink.

