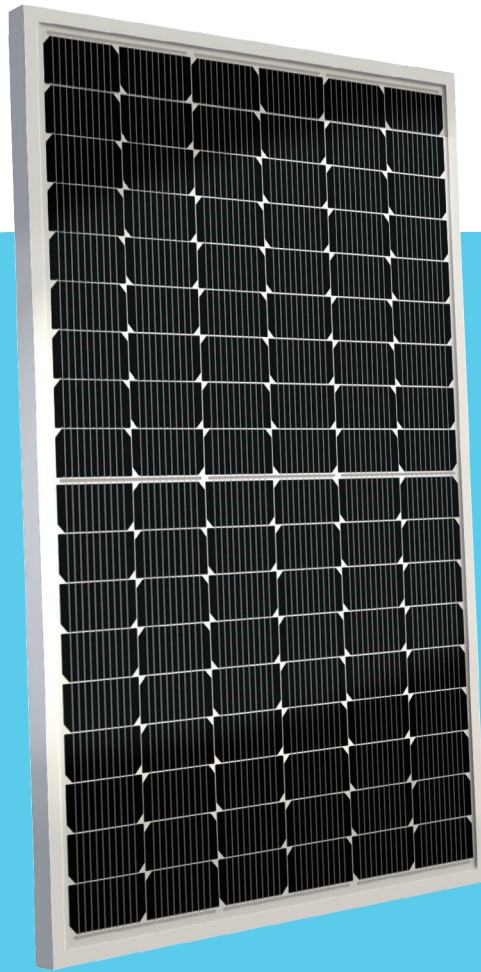




SunBravo PM054MH8

Mono-Crystalline Photovoltaic Module

405W
↓
420W

Power Range
405 ~ 420 W



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



Ammonia Test
Reliable in ammonia
rich environment



SunBravo PM054MH8 (405 ~ 420 Wp)

Electrical Data (STC)

Nominal Power P_N	405W	410W	415W	420W
Module Efficiency	20.8%	21.0%	21.3%	21.5%
Nominal Voltage V_{mp} (V)	30.52	30.62	30.72	30.82
Nominal Current I_{mp} (A)	13.27	13.39	13.51	13.63
Open Circuit Voltage V_{oc} (V)	37.06	37.14	37.22	37.30
Short Circuit Current I_{sc} (A)	13.85	13.92	13.99	14.06
Maximum Tolerance of P_N	0 / +3%			

· 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 %

Electrical Data (NMOT)

Nominal Power P_N	306W	310W	313W	317W
Nominal Voltage V_{mp} (V)	28.80	28.90	29.00	29.10
Nominal Current I_{mp} (A)	10.62	10.71	10.81	10.90
Open Circuit Voltage V_{oc} (V)	35.30	35.40	35.50	35.60
Short Circuit Current I_{sc} (A)	11.19	11.24	11.30	11.36

· 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)	1722 x 1133 x 40mm (67.80 x 44.61 x 1.57 in)*
Weight	22 kg (48.50 lbs)
Front Glass	High transparent solar glass (tempered), 3.2 mm (0.13 in)
Cell	54 monocrystalline solar cells (108 pcs)
Back Sheet	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 x0.16 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	25 A
Front / Rear Test Load	6000 Pa / 5400 Pa
Max. Dynamic Mechanical Load	4800 Pa
Safety Class	II

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

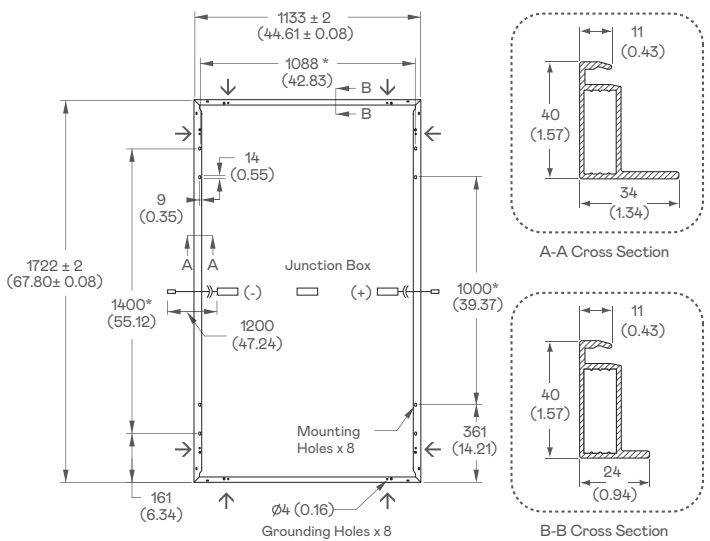
* 1 : Please refer to warranty letter for detail

* 2 : Please confirm other certifications with official dealers

Packing Configuration

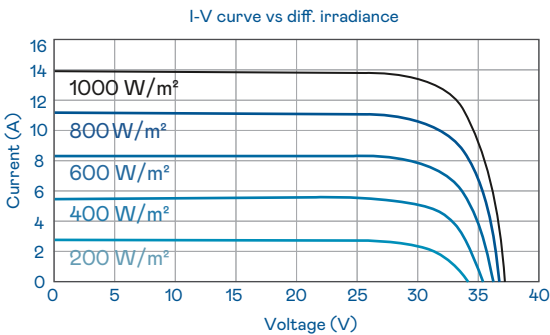
Container	20' GP	40' GP	40' HQ
Pieces per Pallet	26	26	26
Pallets per Container	6	13	26
Pieces per Container	156	338	676

Dimensions mm (inch)



* Distance between two Mounting Holes
→ Grounding Holes

I-V Curve



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

This datasheet complies with the EN 50380 requirements.



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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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