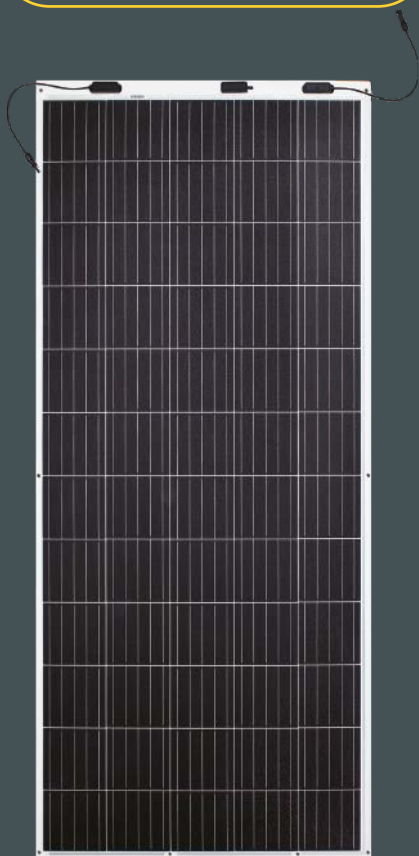


SUNO-U310M-5X12DW



Power output range **305~310 W**

Power Tolerance **0-5 W**

5 Year Product Warranty

25 Year Linear Power Warranty



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"Innovating for Solar Energy"



310W

60 Cell Monocrystalline Module



Ultra-light: Glass free module weighs 5.0 kg, 70% lighter than conventional glass modules.



Fast Installation: Through "Quick-Bonding" installation, SUNO[®]UL requires no penetration, reduces time on roof by 40% and eliminates the use of mounting hardware.



Aesthetics: Seamless integration with underlying installation surface.



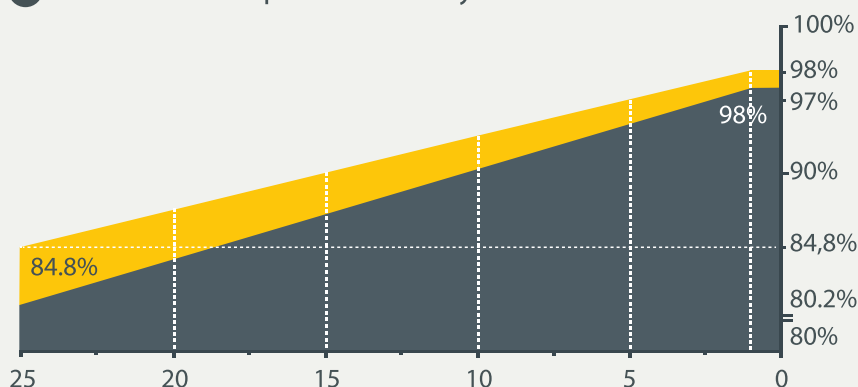
Durable: SUNO[®]UL is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 6215:2016, IEC61730:2016 and UL61730 (USA). SUNO[®]UL has also passed PID, salt mist and ammonia corrosion tests.

LINEAR PERFORMANCE WARRANTY

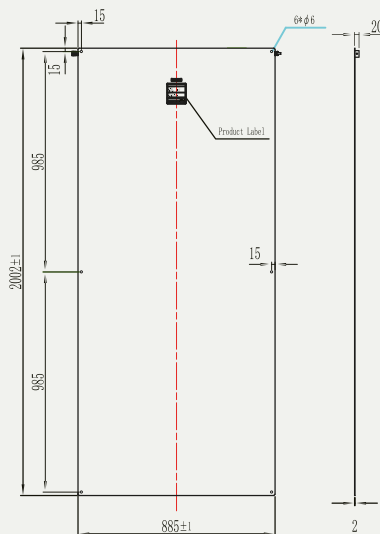
CAUTION: Read installation manual before using the product.

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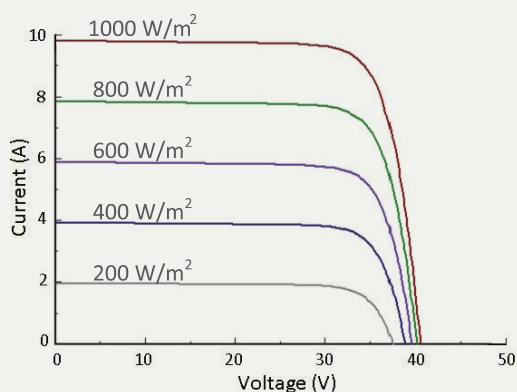
- SUNO-UL linear power warranty
- Standard linear power warranty



DIMENSIONS



I-V CURVE (310)



ELECTRICAL CHARACTERISTICS

STC	SUNO-U305M-5x12UW	SUNO-U310M-5x12UW
Maximum Power (P_{max})	305	310
Maximum Power Voltage (V_{mp})	33.0	33.3
Maximum Power Current (I_{mp})	9.25	9.31
Open-circuit Current (V_{oc})	40.3	40.5
Short-circuit Current (I_{sc})	9.74	9.81
Module Efficiency (%)	17.2	17.5
Operating Temperature	-40 °C to 85 °C	
Maximum System Voltage	1000 V DC (IEC)	
Maximum Series Fuse Rating	20 A	
Application Class	Class A	
Power Tolerance	0/+5 W	

STC: Irradiance 1000W/m², Cell temperature 25 C, AM=1.5. Tolerances of P_{max} , V_{oc} and I_{sc} are within $\pm 5\%$

NMOT	SUNO-U305M-5x12UW	SUNO-U310M-5x12UW
Maximum Power (P_{max})	229	233
Maximum Power Voltage (V_{mp})	30.5	30.7
Maximum Power Current (I_{mp})	7.51	7.59
Open-circuit Voltage (V_{oc})	37.4	37.6
Short-circuit Current (I_{sc})	7.96	8.04

NMOT: Irradiance 800W/m², Ambient temperature 20 C, AM=1.5, Wind speed 1 m/s.

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon (158.75mm)
Nº of Cells	60 (5x12)
Module Dimensions	2002x885x2 mm
Weight	5.0kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm ² , (+)450 / (-)450 mm
Connector	MC4 compatible

PACKAGING CONFIGURATION

	20'GP	40'HC
Module per pallet	66	66+15
Pieces per container	660	1617

TEMPERATURE CHARACTERISTICS



Nominal Module Operating Temperature (NMOT) **41 ± 2°C**

Temperature Coefficient of P_{max} **-0.38 %/°C**

Temperature Coefficient of V_{oc} **-0.28 %/°C**

Temperature Coefficient of I_{sc} **0.020 %/°C**