

SUNO-U430F-12X12UW



Power output range **425-430 W**

Power Tolerance **0-5 W**

430 Watt

144 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 6.3 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.



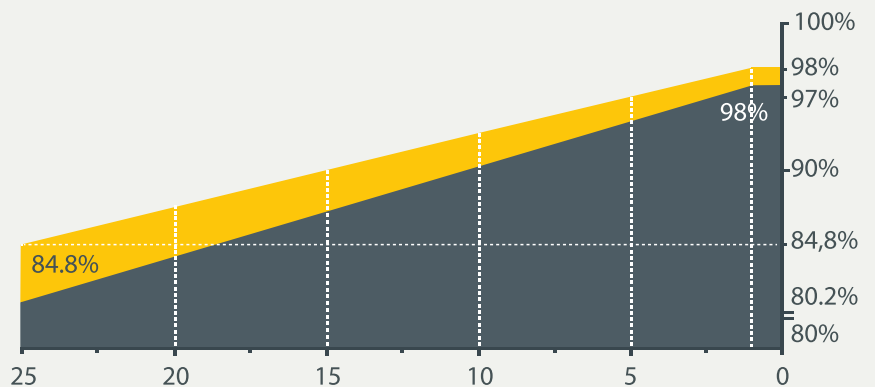
Durable: TSOe is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 6215:2016, IEC61730:2016 and UL61730 (USA). SUNO[®]UL has also passed PID, salt mist and ammonia corrosion tests.

LINEAR PERFORMANCE WARRANTY

CAUTION: Read installation manual before using the product.

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



Added value from TSO's linear power warranty

12 Year Product Warranty

25 Year Linear Power Warranty

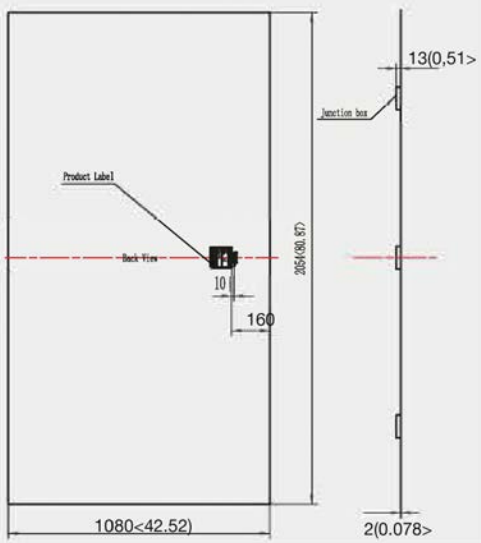


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DIMENSIONS

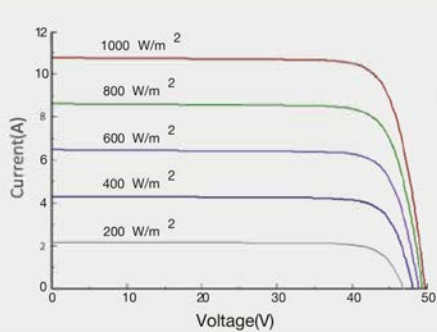


ELECTRICAL CHARACTERISTICS

STC	SUNO-U425F	SUNO-U430F
Maximum Power (P_{max})	425	430
Maximum Power Voltage (V_{mp})	41.8	42.0
Maximum Power Current (I_{mp})	10.17	10.24
Open-circuit Current (V_{oc})	49.6	49.8
Short-circuit Current (I_{sc})	10.67	10.74
Module Efficiency (%)	19.2	19.4
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 ±5%

I-V CURVE (520)



NMOT	SUNO-U425F	SUNO-U430F
Maximum Power (P_{max})	321.4	325.1
Maximum Power Voltage (V_{mp})	38.6	38.8
Maximum Power Current (I_{mp})	8.33	8.38
Open-circuit Current (V_{oc})	46.6	46.8
Short-circuit Current (I_{sc})	8.64	8.69

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon (166mm half cell)
Nº of Cells	144 (12x12)
Module Dimensions	2054x1084x2 mm
Weight	6.3 kgs (16.01 lbs)
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+50	66
Pieces per container	580	1320

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**