

SUNO-U200F-8x09DB-e



Power output range **200 W**

Power Tolerance **0-5 W**



5 Year Product Warranty



www.tso.solar

“Innovating for Solar Energy”



200 Watt

72 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 2.9 kg, 70% lighter than conventional glass modules.



Aesthetics: Seamless integration with underlying installation surface.



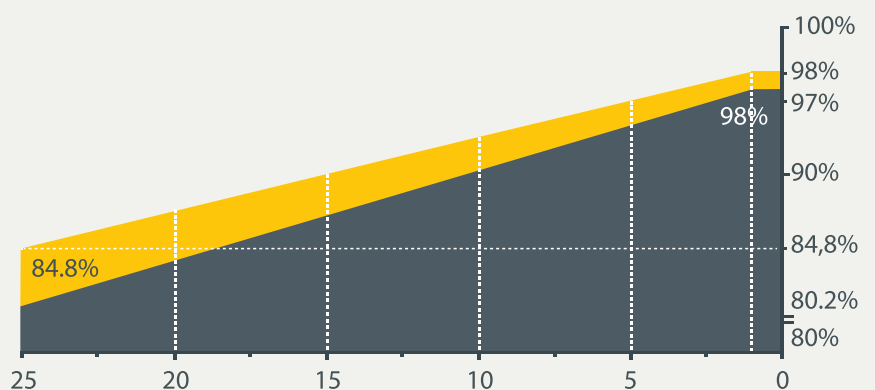
Durable: SUNO UL is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 6215:2016, IEC61730:2016 and UL61730 (USA). SUNO[®]UL has also passed PID, salt mist and ammonia corrosion tests.

LINEAR PERFORMANCE WARRANTY

CAUTION: Read installation manual before using the product.

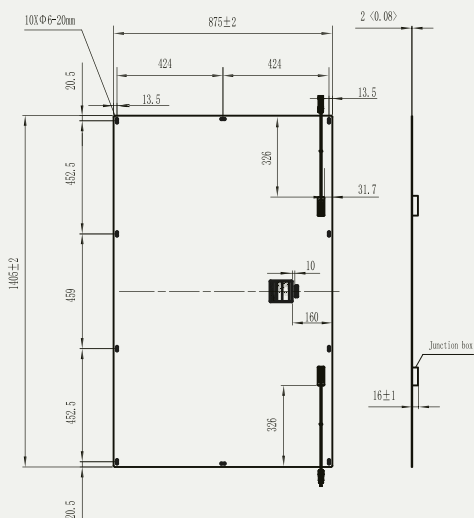
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- SUNO-UL linear power warranty
- Standard linear power warranty

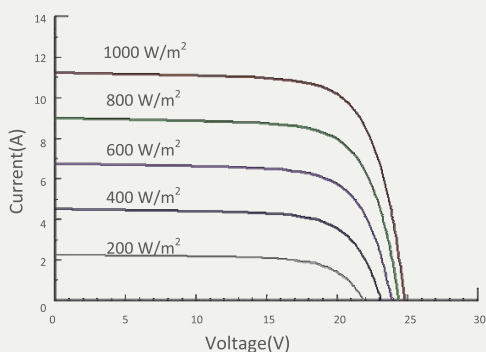


Added value from TSO's linear power warranty

DIMENSIONS



I-V CURVE (520)



ELECTRICAL CHARACTERISTICS

STC

U200F-8X09DB-e

Maximum Power (P_{max})	200
Maximum Power Voltage (V_{mp})	21.2
Maximum Power Current (I_{mp})	10.71
Open-circuit Current (V_{oc})	24.8
Short-circuit Current (I_{sc})	11.23
Module Efficiency (%)	16.2
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	25 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%

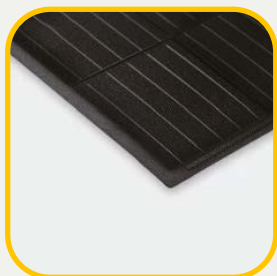
NMOT

U200F-8X09DB-e

Maximum Power (P_{max})	162.3
Maximum Power Voltage (V_{mp})	20.2
Maximum Power Current (I_{mp})	8.04
Open-circuit Current (V_{oc})	24.7
Short-circuit Current (I_{sc})	8.98

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

TEMPERATURE CHARACTERISTICS



SUNO-UL IEC EN 2023B11

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

Temperature Coefficient of P_{max} **-0.34 %/°C**

Temperature Coefficient of V_{oc} **-0.34 %/°C**

Temperature Coefficient of I_{sc} **0.034 %/°C**

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon (166mm half cell)
Nº of Cells	72 (8x9)
Module Dimensions	1405x875x2 mm
Weight	2.9kg
Backsheet	Cell side Black
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
Pieces per container	/	1848