



Ultra-light: By replacing the glass and optimising the framing, the module only weighs 4.1kg/m². 60% lighter than equivalent conventional glass modules.



Effortless installation: Module with the mounting structure pre-integrated. Eliminating the need for a traditional panel mounting structure. Saving time and installation cost.



Wide range of applications: Supports all types of installation method including roof adhesive mounting or removable mechanical mounting. Providing customers with more choices.



Safety: Integration with underlying installation surface, ensuring the waterproof performance and safety performance of the roof.



Durable: eArc is the first glassless module to pass the same durability standards as conventional glass modules, including IEC 61215:2016, IEC 61730:2016 and UL61730(USA).

LINEAR PERFORMANCE WARRANT

CAUTION:Read installation manual before using the product. ©2023 Sunman (zhenjiang) Co.,Ltd.All rights reserved. Specifications included in this datasheet are subject to change without notice.

12 Year Product Warranty 25 Year Linear Power Warranty









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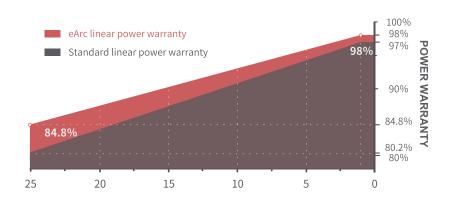






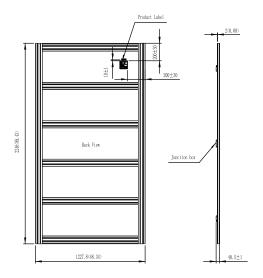




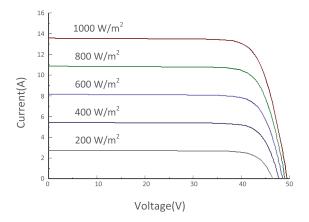




DIMENSIONS



I-V CURVE (520)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT)	41±2 °C
Temperature Coefficient of P _{max}	-0.34 %/ ℃
Temperature Coefficient of V _{oc}	-0.26 %/ ℃
Temperature Coefficient of I _{sc}	0.033 %/℃



ELECTRICAL CHARACTERISTICS

STC	SMH520J-12X12UW	
Maximum Power (P _{max})	520	
Maximum Power Voltage (V_{mp})	42.3	
Maximum Power Current (\mathbf{I}_{mp})	12.31	
Open-circuit Voltage (V _{oc})	49.5	
Short-circuit Current (I _{sc})	13.56	
Module Efficiency (%)	19.3	
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.		

NMOT	MOT SMH520J-12X12UW	
Maximum Power (P _{max})	429.2	
Maximum Power Voltage ($V_{_{\rm mp}}$)	41.8	
Maximum Power Current (\mathbf{I}_{mp})	10.26	
Open-circuit Voltage (V _{oc})	49.8	
Short-circuit Current (I _{sc})	10.82	

NMOT: Irradiance 800W/m² , $\,$ Ambient temperature 20 $^{\circ}$,AM=1.5, Wind speed 1 m/s.

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(182mm half cell)	
No. of Cells	144 (12×12)	
Module Dimensions	2246×1197×2 mm	
Product Dimensions	2246×1227.8×40.5 mm	
Weight	11.1kg	
Backsheet	White	
J-box	IP 68 rated	
Output Cables	Photovoltaic cable 4.0 mm 2 , (+)450 / (-)450 mm	
Connector	MC4 compatible	

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	34	34
Pieces per container	136	272