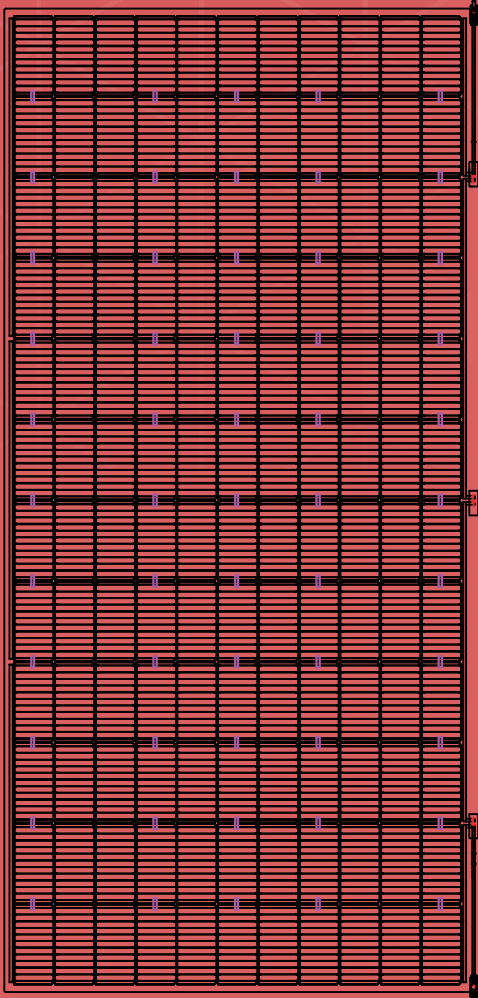


# eArc

SMH625L-12X11DW/DB

625 Watt

132 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 15.7 kg, 70% lighter than conventional glass modules.



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



**Safety:** Seamless 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 tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016 and UL61730 (USA). eArc has also passed PID, salt mist level 8 tests.

POWER OUTPUT RANGE 625 W

POWER TOLERANCE 0-5 W

**12 Year Product Warranty**

**25 Year Linear Power Warranty**



[www.sunman-energy.com](http://www.sunman-energy.com)

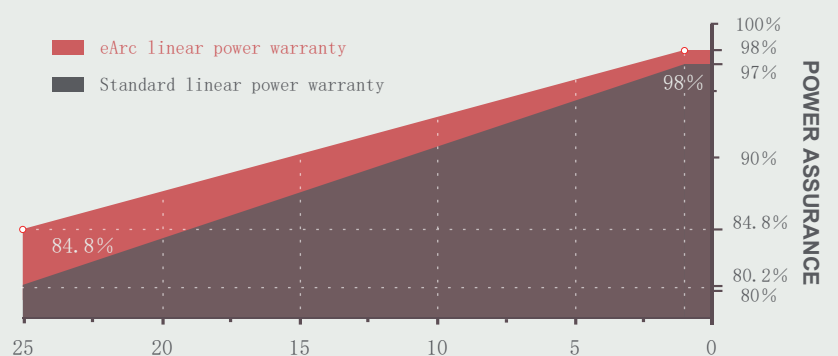


ULTRA-LIGHT & FLEXIBLE SOLAR PANEL

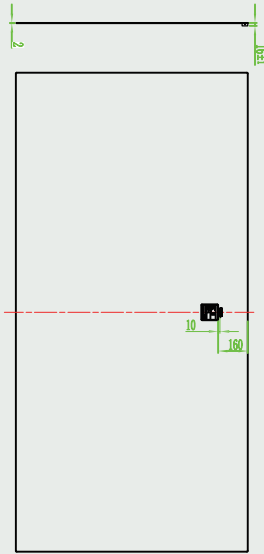
## LINEAR PERFORMANCE WARRANTY

CAUTION: Read installation manual before using the product.

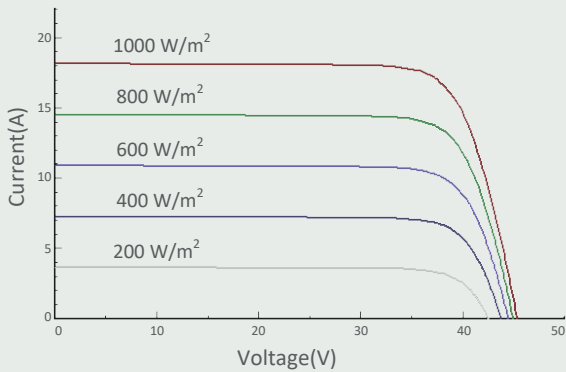
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## DIMENSIONS



## I-V CURVE (625)



## TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT)	<b>41±2 °C</b>
Temperature Coefficient of $P_{max}$	<b>-0.34 %/°C</b>
Temperature Coefficient of $V_{oc}$	<b>-0.26 %/°C</b>
Temperature Coefficient of $I_{sc}$	<b>0.033 %/°C</b>

SMHDW/IEC EN 2023B 6

## ELECTRICAL CHARACTERISTICS

STC	SMH625L-12X11DW/DB
Maximum Power ( $P_{max}$ )	625
Maximum Power Voltage ( $V_{mp}$ )	38.7
Maximum Power Current ( $I_{mp}$ )	16.21
Open-circuit Voltage ( $V_{oc}$ )	45.3
Short-circuit Current ( $I_{sc}$ )	18.13
Module Efficiency (%)	19.4
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A
Application Class	Class A
Power Tolerance	0/+5 W

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM=1.5.

Tolerances of  $P_{max}$ ,  $V_{oc}$  and  $I_{sc}$  are within ±5%

NMOT	SMH625L-12X11DW/DB
Maximum Power ( $P_{max}$ )	504.6
Maximum Power Voltage ( $V_{mp}$ )	37.5
Maximum Power Current ( $I_{mp}$ )	13.44
Open-circuit Voltage ( $V_{oc}$ )	45.3
Short-circuit Current ( $I_{sc}$ )	14.48

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, AM=1.5, Wind speed 1 m/s.

## MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(210mm half cell)
No. of Cells	132 (12×11)
Module Dimensions	2582×1250×2 mm
Weight	7.3kg
Backsheet	White/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	40	40
Pieces per container	160	320