

# eArc

## SMF150M-6X05DB-e

# 150 Watt

## 30 Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 2.6 kg, 70% lighter than conventional glass modules.



**Aesthetic:** Seamless integration with underlying installation surface.



**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 and ammonia corrosion tests.

POWER OUTPUT RANGE 150 W

POWER TOLERANCE 0-5 W

**12 Year Product Warranty**

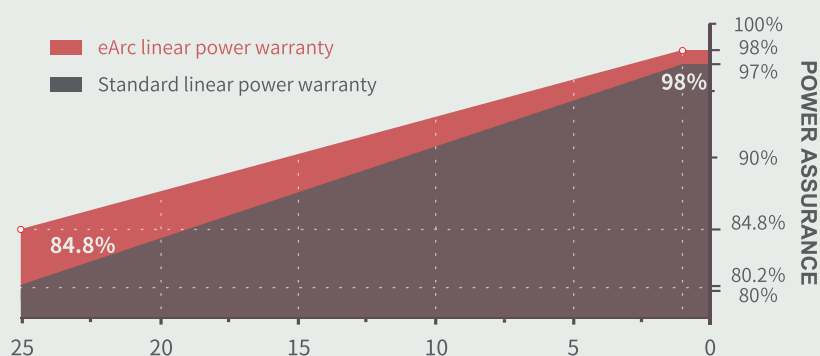
**25 Year Linear Power Warranty**



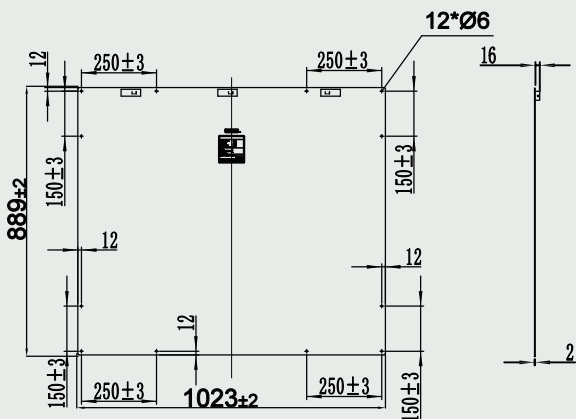
[www.sunman-energy.com](http://www.sunman-energy.com)

### LINEAR PERFORMANCE WARRANTY

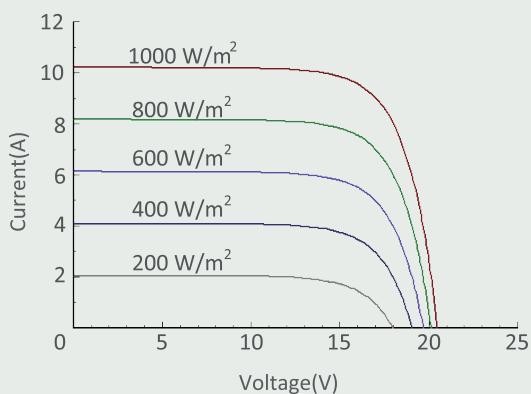
CAUTION: Read installation manual before using the product.  
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## DIMENSIONS



## I-V CURVE (150)



## 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**

Dealer information

SMFDB IEC EN 2023B 6

## ELECTRICAL CHARACTERISTICS

| STC                                | SMF150M-6X05DB-e |
|------------------------------------|------------------|
| Maximum Power ( $P_{max}$ )        | 150              |
| Maximum Power Voltage ( $V_{mp}$ ) | 15.74            |
| Maximum Power Current ( $I_{mp}$ ) | 9.67             |
| Open-circuit Voltage ( $V_{oc}$ )  | 20.49            |
| Short-circuit Current ( $I_{sc}$ ) | 10.21            |
| Module Efficiency (%)              | 16.5             |
| 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 ±5%

| NMOT                               | SMF150M-6X05DB-e |
|------------------------------------|------------------|
| Maximum Power ( $P_{max}$ )        | 120.1            |
| Maximum Power Voltage ( $V_{mp}$ ) | 16.3             |
| Maximum Power Current ( $I_{mp}$ ) | 7.39             |
| Open-circuit Voltage ( $V_{oc}$ )  | 20.4             |
| Short-circuit Current ( $I_{sc}$ ) | 8.14             |

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      | 30 (6×5)  |
| Module Dimensions | 1023×889×2 mm   |
| Weight            | 2.6kg   |
| Backsheet         | Black   |
| Frame             | Frameless   |
| J-box             | IP 68 rated   |
| Output Cables     | Photovoltaic technology cable 4.0 mm 2, (+)450 mm / (-)450 mm |
| Connector         | MC4 compatible  |

## PACKAGING CONFIGURATION

|                      |        |        |
|----------------------|--------|--------|
|                      | 20' GP | 40' HC |
| Module per pallet    | 66+86  | 66+86  |
| Pieces per container | 1216   | 2736   |