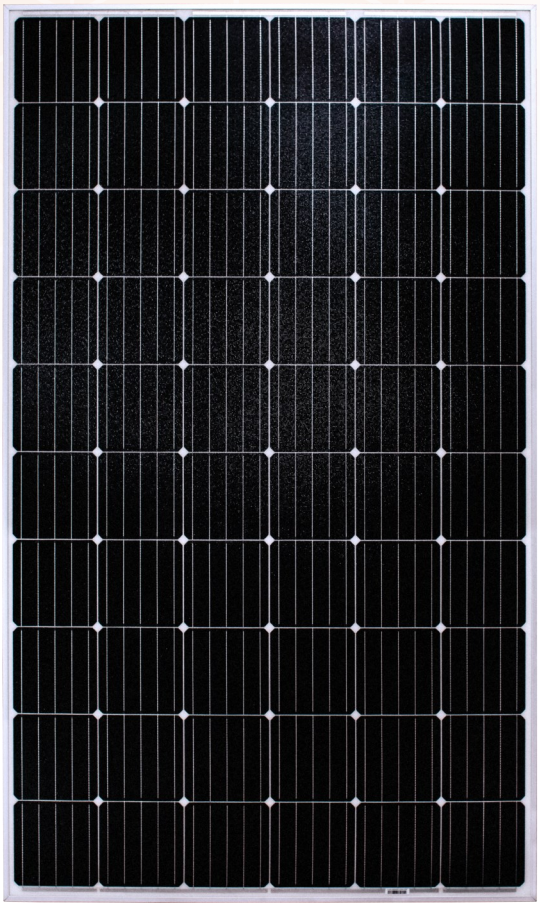
SUNMAN
SOLAR SPECIALIST

# 300 Watt

## eArche

## 60 Cell Monocrystalline Module



**Ultra-light:** Through replacement of the glass and optimization of the frame eArche weighs as 60% less than conventional PV panels.

**No-glass:** No fragile glass design lead to PID-free and more safety in handling, transportation, installation and operation.

**Aesthetics:** Aesthetically pleasing design with patented materials and sophisticated manufacturing process results in a high-efficiency, attractive panel, with no light pollution, PID-free operation and high levels of safety.

**Easy Installation:** eArche can reduce installation cost by up to 50% through the use of re-engineered components, ease of handling and faster installation.

**Transportation:** eArche's innovative frame and low weight will very significantly reduce the cost of transportation.

**Deployment:** Ultra-light weight, flexibility and customizable size make eArche the best choice to change the way how solar is deployed in the market and bring added value to special applications.

**Durability:** eArche panels are certified to withstand maximum test load (2400 Pascal), while special materials and stringent quality control ensure panel longevity.

2400pa

## LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

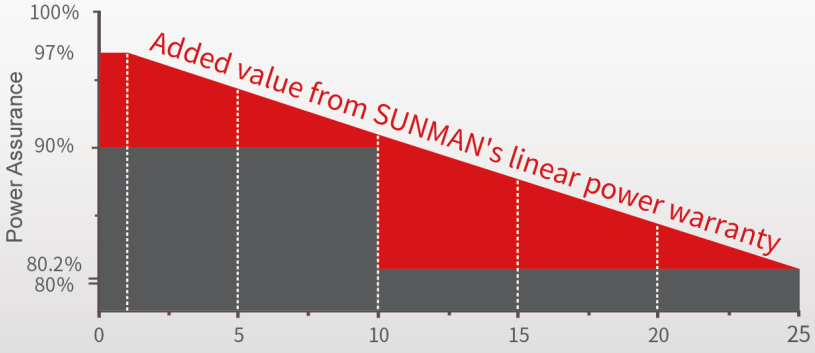
25 Year Linear Power Warranty

**295-300 W**

**POWER OUTPUT RANGE**

**0-5 W**

**POWER TOLERANCE**




www.sunman-energy.com

# SMA300M-6X10DW

# SMA295M-6X10DW

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## Electrical Characteristics

| STC | SMA300M-6X10DW | SMA295M-6X10DW |
|---|---|---|
| Maximum Power ($P_{max}$) | 300 | 295 |
| Maximum Power Voltage ($V_{mp}$) | 33.0 | 32.8 |
| Maximum Power Current ($I_{mp}$) | 9.10 | 9.00 |
| Open-circuit Voltage ($V_{oc}$) | 40.3 | 40.1 |
| Short-circuit Current ($I_{sc}$) | 9.61 | 9.52 |
| Module Efficiency (%) | 18.4 | 18.1 |
| Operating Temperature（℃） | -40 ℃ to 85 ℃ | |
| 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/$m^2$, Cell temperature 25℃, AM=1.5.
Tolerances of $P_{max}$, $V_{oc}$ and $I_{sc}$ are within ±5%

| NMOT | SMA300M-6X10DW | SMA295M-6X10DW |
|---|---|---|
| Maximum Power ($P_{max}$) | 225 | 221 |
| Maximum Power Voltage ($V_{mp}$) | 30.5 | 30.3 |
| Maximum Power Current ($I_{mp}$) | 7.38 | 7.30 |
| Open-circuit Voltage ($V_{oc}$) | 37.4 | 37.2 |
| Short-circuit Current ($I_{sc}$) | 7.85 | 7.76 |

NMOT: Irradiance 800W/$m^2$, Ambient temperature 20℃, AM=1.5, Wind speed 1 m/s.

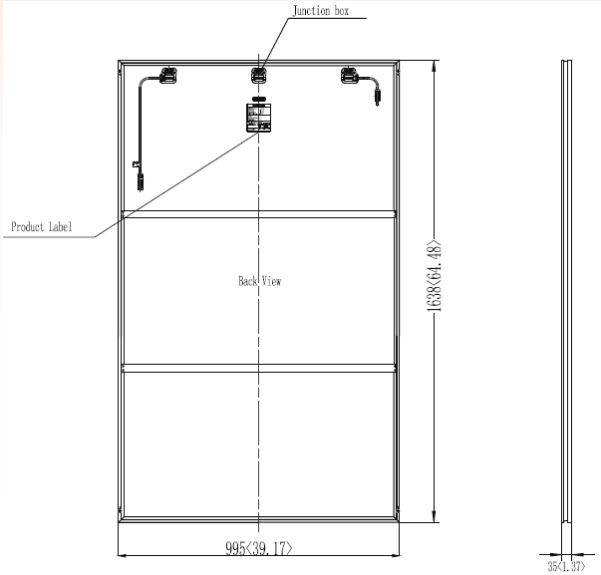
## Mechanical Characteristics

| | |
|---|---|
| Solar Cell | Monocrystalline silicon (6 inches) |
| No. of Cells | 60 (6×10) |
| Module Dimensions | 1638×995×35 mm (64.5×39.2×1.4 inch) |
| Weight | 7.6 kgs (16.8 lbs) |
| Backsheet | White |
| Frame | Anodized Aluminium Alloy |
| J-box | IP 68 rated |
| Output Cables | Photovoltaic technology cable 4.0 $mm^2$, (+)150 / (-)450 mm |
| Connector | MC4 compatible |

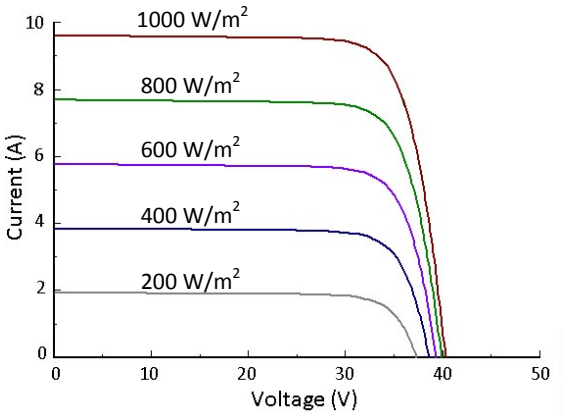
## Packaging Configuration

| | 20' GP | 40' HC |
|---|---|---|
| Module per pallet | 30 | 30 |
| Pieces per container | 360 | 840 |

## Dimensions




## I-V Curve (300)




## Temperature Characteristics

| | |
|---|---|
| Nominal Module Operating Temperature(NMOT) | 41±2 ℃ |
| Temperature Coefficient of Pmax | -0.38 %/℃ |
| Temperature Coefficient of Voc | -0.28 %/℃ |
| Temperature Coefficient of Isc | 0.020 %/℃ |

Dealer Information

SMADW_IEC_EN_2019A

**CAUTION:** Read installation manual before using the product.