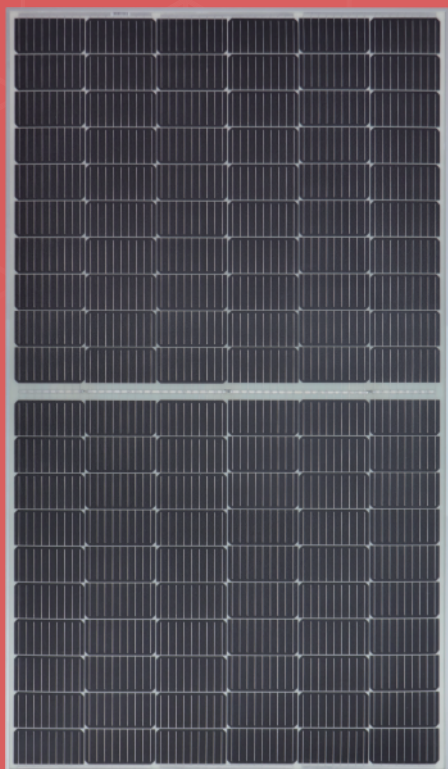


# eArc

## SMB365F-6X20DW

# 365 Watt

## 120 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 9.6 kg, 60% 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.



**No Light Pollution:** Glass-free design significantly reduces light pollution.



**Durable:** eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016.

POWER OUTPUT RANGE 360~365 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

### LINEAR PERFORMANCE WARRANTY

**12 Year Product Warranty**

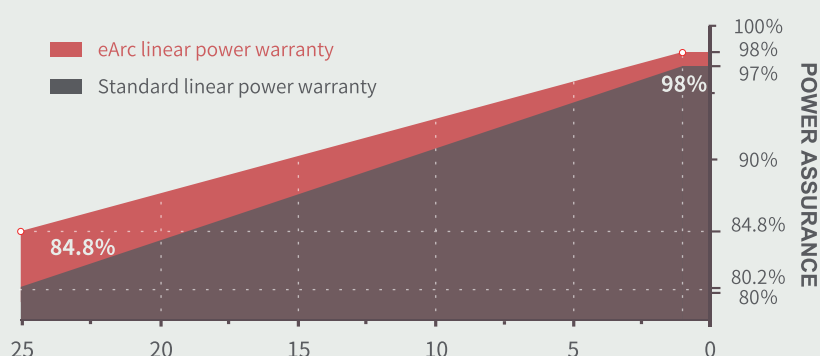
**25 Year Linear Power Warranty**



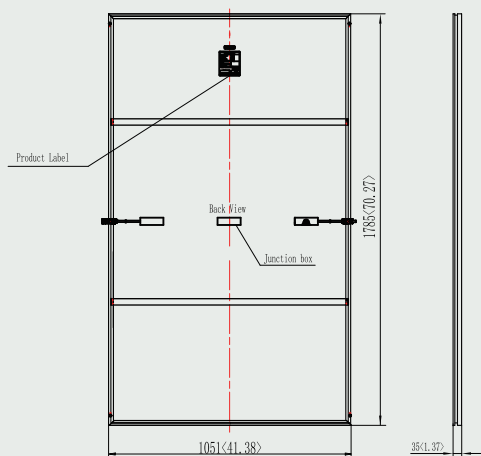
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

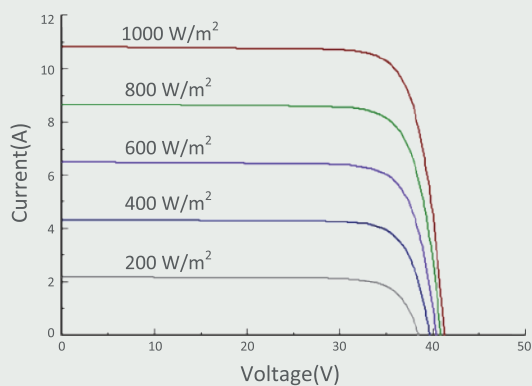
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## DIMENSIONS



## I-V CURVE (360)



## TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT) **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**



SMBDW IEC AU 2021B

## ELECTRICAL CHARACTERISTICS

| STC                                | SMB360F-6X20DW  | SMB365F-6X20DW |
|------------------------------------|-----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 360             | 365            |
| Maximum Power Voltage ( $V_{mp}$ ) | 34.9            | 35.1           |
| Maximum Power Current ( $I_{mp}$ ) | 10.32           | 10.40          |
| Open-circuit Voltage ( $V_{oc}$ )  | 41.3            | 41.5           |
| Short-circuit Current ( $I_{sc}$ ) | 10.82           | 10.90          |
| Module Efficiency (%)              | 19.2            | 19.5           |
| 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                               | SMB360F-6X20DW | SMB360F-6X20DW |
|------------------------------------|----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 272.2          | 276.0          |
| Maximum Power Voltage ( $V_{mp}$ ) | 32.2           | 32.4           |
| Maximum Power Current ( $I_{mp}$ ) | 8.46           | 8.52           |
| Open-circuit Voltage ( $V_{oc}$ )  | 38.8           | 39.0           |
| Short-circuit Current ( $I_{sc}$ ) | 8.77           | 8.84           |

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

## MECHANICAL CHARACTERISTICS

|                   |                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------|
| Solar Cell        | Monocrystalline silicon(166mm half cell)                                                          |
| No. of Cells      | 120 (6×20)                                                                                        |
| Module Dimensions | 1785×1051×35 mm                                                                                   |
| Weight            | 9.6kg                                                                                             |
| Backsheet         | White                                                                                             |
| Frame             | Anodized Aluminium Alloy                                                                          |
| J-box             | IP 68 rated                                                                                       |
| Output Cables     | Photovoltaic technology cable 4.0 mm 2, (+)150 / (-)450 mm                                        |
| Connector         | Dawning: C1  |

## PACKAGING CONFIGURATION

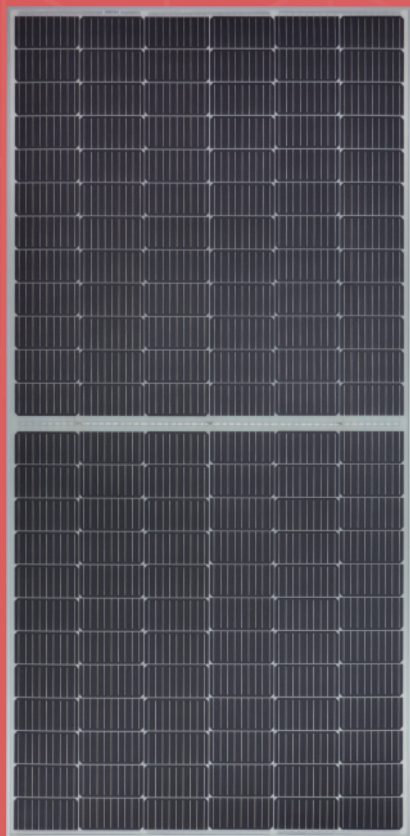
|                      |        |        |
|----------------------|--------|--------|
|                      | 20' GP | 40' HC |
| Module per pallet    | 30+20  | 30     |
| Pieces per container | 300    | 720    |

# eArc

## SMB440F-6X24DW

# 440 Watt

## 144 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 11.2 kg, 60% 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.



**No Light Pollution:** Glass-free design significantly reduces light pollution.



**Durable:** eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016.

POWER OUTPUT RANGE 435~440 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

### LINEAR PERFORMANCE WARRANTY

**12 Year Product Warranty**

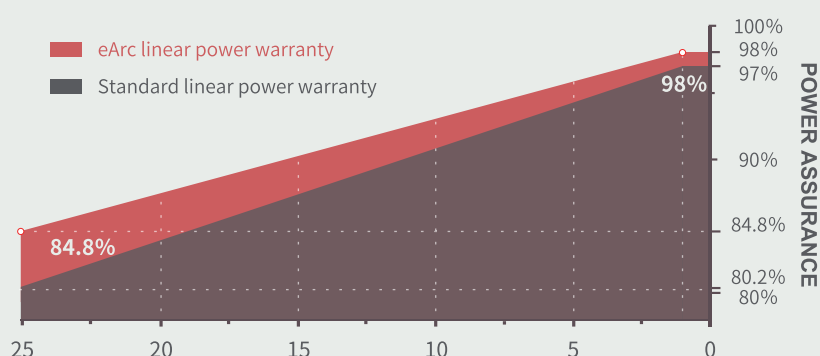
**25 Year Linear Power Warranty**



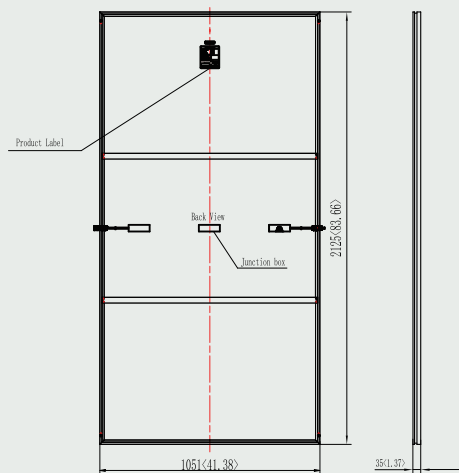
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

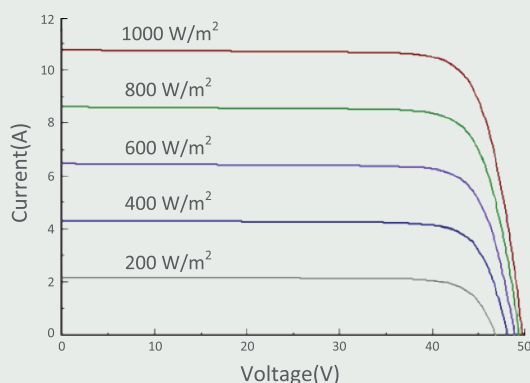
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## DIMENSIONS



## I-V CURVE (430)



## TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT) **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**



SMBDW IEC AU 2021B

## ELECTRICAL CHARACTERISTICS

| STC                                | SMB435F-6X24DW  | SMB440F-6X24DW |
|------------------------------------|-----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 435             | 440            |
| Maximum Power Voltage ( $V_{mp}$ ) | 42.2            | 42.4           |
| Maximum Power Current ( $I_{mp}$ ) | 10.31           | 10.38          |
| Open-circuit Voltage ( $V_{oc}$ )  | 50.0            | 50.2           |
| Short-circuit Current ( $I_{sc}$ ) | 10.81           | 10.88          |
| Module Efficiency (%)              | 19.5            | 19.7           |
| 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                               | SMB435F-6X24DW | SMB440F-6X24DW |
|------------------------------------|----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 328.9          | 332.7          |
| Maximum Power Voltage ( $V_{mp}$ ) | 39.0           | 39.1           |
| Maximum Power Current ( $I_{mp}$ ) | 8.44           | 8.51           |
| Open-circuit Voltage ( $V_{oc}$ )  | 47.0           | 47.1           |
| Short-circuit Current ( $I_{sc}$ ) | 8.75           | 8.82           |

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

## MECHANICAL CHARACTERISTICS

|                   |                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------|
| Solar Cell        | Monocrystalline silicon(166mm half cell)                                                          |
| No. of Cells      | 144 (6×24)                                                                                        |
| Module Dimensions | 2125×1051×35 mm                                                                                   |
| Weight            | 11.2kg                                                                                            |
| Backsheet         | White                                                                                             |
| Frame             | Anodized Aluminium Alloy                                                                          |
| J-box             | IP 68 rated                                                                                       |
| Output Cables     | Photovoltaic technology cable 4.0 mm 2, (+)150 / (-)450 mm                                        |
| Connector         | Dawning: C1  |

## PACKAGING CONFIGURATION

|                      | 20' GP | 40' HC |
|----------------------|--------|--------|
| Module per pallet    | 30+20  | 30     |
| Pieces per container | 250    | 660    |