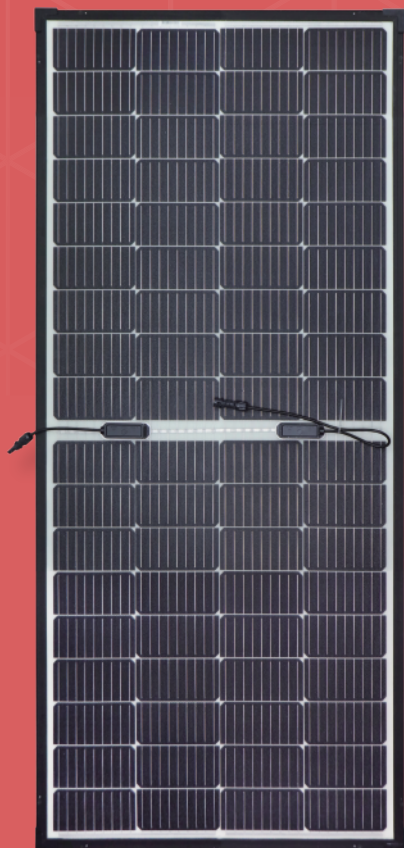


# eArc

## SMD215F-4X18UW

# 215 Watt

## 72 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 4.7 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.



**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.

POWER OUTPUT RANGE 210~215 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

**LINEAR PERFORMANCE WARRANTY**

**10 Year Product Warranty**

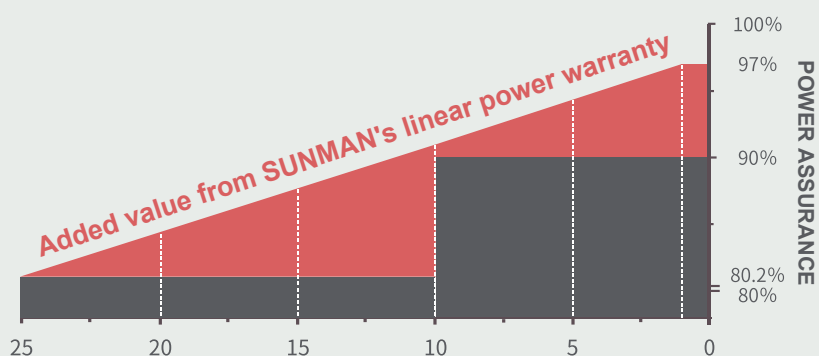
**25 Year Linear Power Warranty**



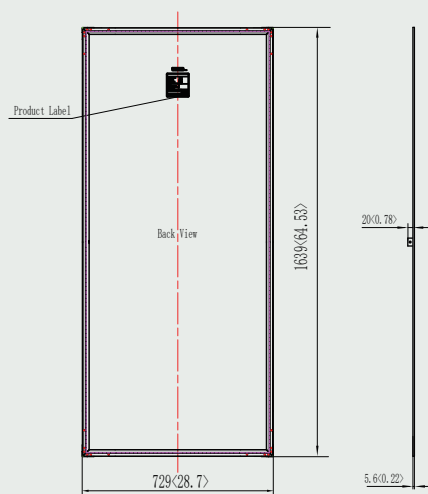
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

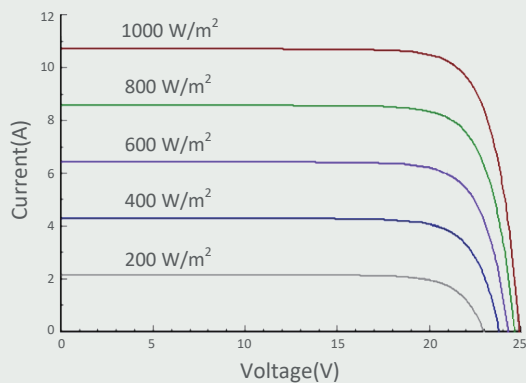
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## DIMENSIONS



## I-V CURVE (215)



## 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**



SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.  
Any other roof sheeting install requires consultation with Sunman or its local importer.  
Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527.  
Mounting module with clamps is not suitable. Please refer to installation manual for mounting method.

SMDUW/IEC AU 2021A

## ELECTRICAL CHARACTERISTICS

| STC                                | SMD210F-4X18UW  | SMD215F-4X18UW |
|------------------------------------|-----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 210             | 215            |
| Maximum Power Voltage ( $V_{mp}$ ) | 20.8            | 21.0           |
| Maximum Power Current ( $I_{mp}$ ) | 10.10           | 10.24          |
| Open-circuit Voltage ( $V_{oc}$ )  | 24.7            | 24.9           |
| Short-circuit Current ( $I_{sc}$ ) | 10.58           | 10.72          |
| Module Efficiency (%)              | 17.6            | 18.0           |
| 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/m<sup>2</sup>, Cell temperature 25 °C, AM=1.5.

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

| NMOT                               | SMD210F-4X18UW | SMD215F-4X18UW |
|------------------------------------|----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 158.8          | 162.6          |
| Maximum Power Voltage ( $V_{mp}$ ) | 19.2           | 19.4           |
| Maximum Power Current ( $I_{mp}$ ) | 8.28           | 8.39           |
| Open-circuit Voltage ( $V_{oc}$ )  | 23.2           | 23.4           |
| Short-circuit Current ( $I_{sc}$ ) | 8.57           | 8.68           |

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(166mm half cell)                   |
| No. of Cells      | 72 (4×18)  |
| Module Dimensions | 1639×729×5.6 mm  |
| Weight            | 4.7kg  |
| Backsheet         | White  |
| Frame             | Black 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    | 50     | 50+30  |
| Pieces per container | 600    | 1690   |

# eArc

## SMD285F-4X24UW

# 285 Watt

## 96 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 5.9 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.



**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.

POWER OUTPUT RANGE 280~285 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

**LINEAR PERFORMANCE WARRANTY**

**10 Year Product Warranty**

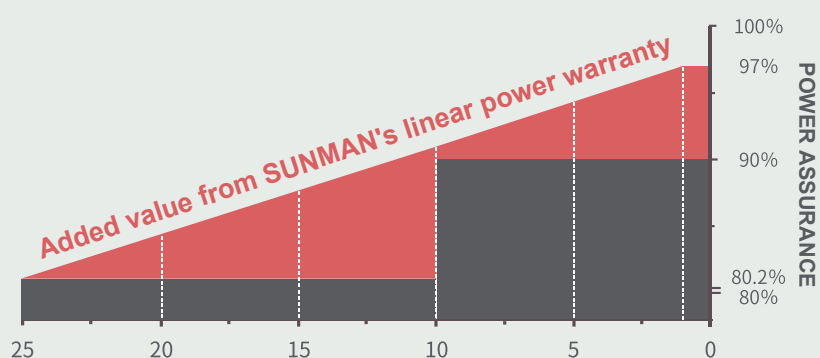
**25 Year Linear Power Warranty**



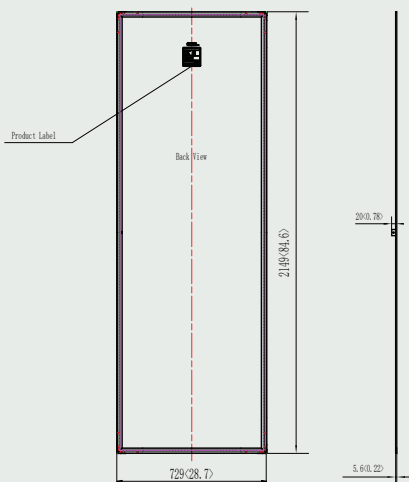
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

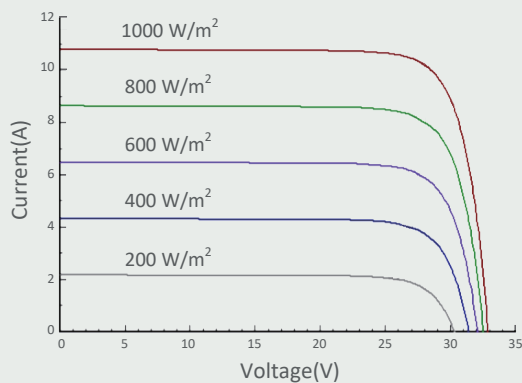
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## DIMENSIONS



## I-V CURVE (285)



## 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**



SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume. Any other roof sheeting install requires consultation with Sunman or its local importer. Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527. Mounting module with clamps is not suitable. Please refer to installation manual for mounting method.

SMDUW/IEC AU 2021A

## ELECTRICAL CHARACTERISTICS

| STC                                | SMD280F-4X24UW  | SMD285F-4X24UW |
|------------------------------------|-----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 280             | 285            |
| Maximum Power Voltage ( $V_{mp}$ ) | 27.5            | 27.7           |
| Maximum Power Current ( $I_{mp}$ ) | 10.19           | 10.29          |
| Open-circuit Voltage ( $V_{oc}$ )  | 32.7            | 32.9           |
| Short-circuit Current ( $I_{sc}$ ) | 10.68           | 10.78          |
| Module Efficiency (%)              | 17.9            | 18.2           |
| 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                               | SMD280F-4X24UW | SMD285F-4X24UW |
|------------------------------------|----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 211.7          | 215.5          |
| Maximum Power Voltage ( $V_{mp}$ ) | 25.4           | 25.6           |
| Maximum Power Current ( $I_{mp}$ ) | 8.34           | 8.42           |
| Open-circuit Voltage ( $V_{oc}$ )  | 30.7           | 30.9           |
| Short-circuit Current ( $I_{sc}$ ) | 8.64           | 8.72           |

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      | 96 (4×24)   |
| Module Dimensions | 2149×729×5.6 mm   |
| Weight            | 5.9kg   |
| Backsheet         | White   |
| Frame             | Black 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

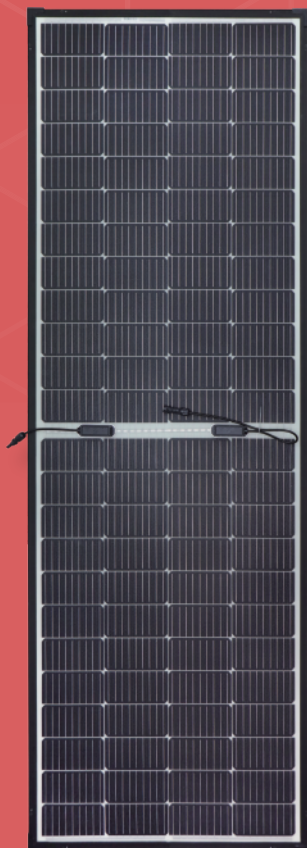
|                      |        |        |
|----------------------|--------|--------|
|                      | 20' GP | 40' HC |
| Module per pallet    | 50     | 50+30  |
| Pieces per container | 500    | 1300   |

# eArc

## SMD290F-4X24UW

# 290 Watt

## 96 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 5.9 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.



**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.

POWER OUTPUT RANGE 285~290 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

**LINEAR PERFORMANCE WARRANTY**

**10 Year Product Warranty**

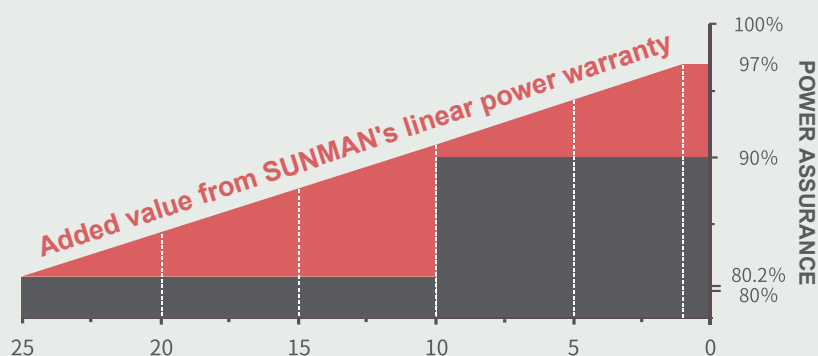
**25 Year Linear Power Warranty**



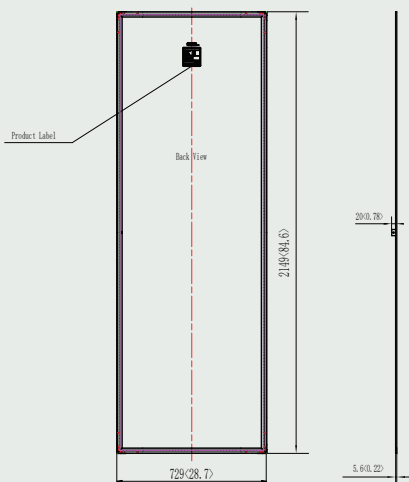
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

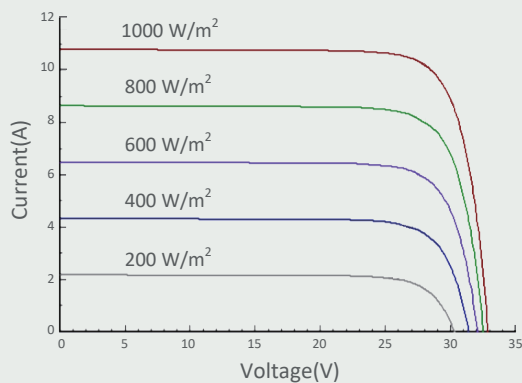
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## DIMENSIONS



## I-V CURVE (285)



## 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**



Fire resistance:  
C in accordance with UL 790

SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.  
Any other roof sheeting install requires consultation with Sunman or its local importer.  
Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527.  
Mounting module with clamps is not suitable. Please refer to installation manual for mounting method.


SMDUW/IEC AU 2021A

## ELECTRICAL CHARACTERISTICS

| STC  | SMD285F-4X24UW  | SMD290F-4X24UW |
|--|-----------------|----------------|
| Maximum Power ( $P_{max}$ )                                    | 285             | 290            |
| Maximum Power Voltage ( $V_{mp}$ )                             | 27.7            | 27.9           |
| Maximum Power Current ( $I_{mp}$ )                             | 10.29           | 10.40          |
| Open-circuit Voltage ( $V_{oc}$ )                              | 32.9            | 33.1           |
| Short-circuit Current ( $I_{sc}$ )                             | 10.78           | 10.90          |
| Module Efficiency (%)  | 18.2            | 18.5           |
| 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   | SMD285F-4X24UW | SMD290F-4X24UW |
|--|----------------|----------------|
| Maximum Power ( $P_{max}$ )  | 215.5          | 219.3          |
| Maximum Power Voltage ( $V_{mp}$ )   | 25.6           | 25.8           |
| Maximum Power Current ( $I_{mp}$ )   | 8.42           | 8.51           |
| Open-circuit Voltage ( $V_{oc}$ )  | 30.9           | 31.1           |
| Short-circuit Current ( $I_{sc}$ )   | 8.72           | 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      | 96 (4×24)   |
| Module Dimensions | 2149×729×5.6 mm   |
| Weight            | 5.9kg   |
| Backsheet         | White   |
| Frame             | Black 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    | 50     | 50+30  |
| Pieces per container | 500    | 1300   |

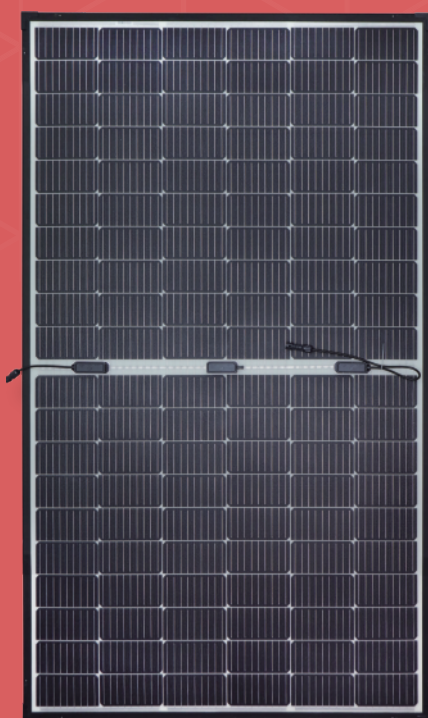


# eArc

## SMD360F-6X20UW

# 360 Watt

## 120 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 7.1 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.



**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.

POWER OUTPUT RANGE 355~360 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

**LINEAR PERFORMANCE WARRANTY**

**10 Year Product Warranty**

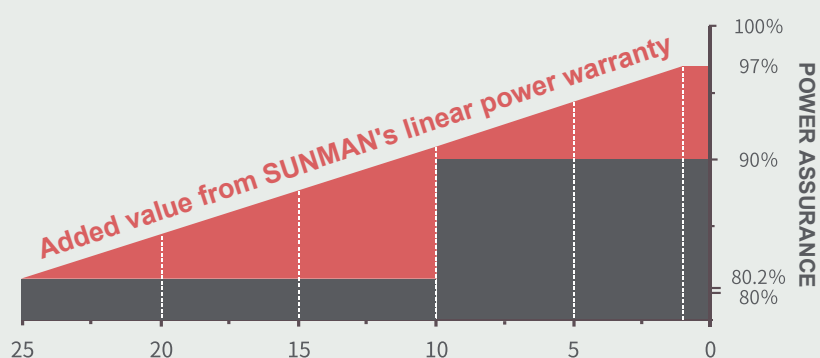
**25 Year Linear Power Warranty**



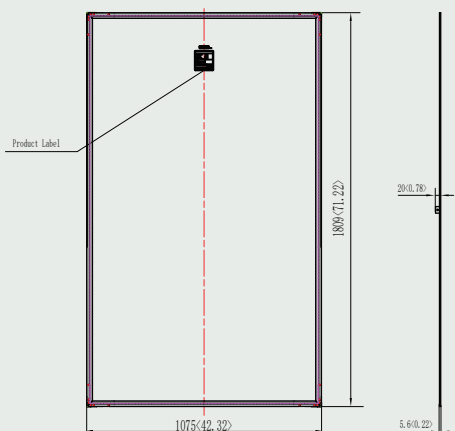
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

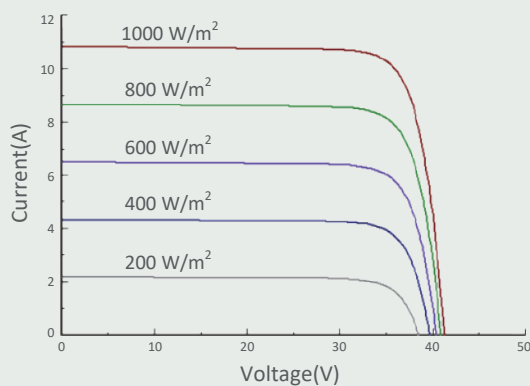
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## DIMENSIONS



## 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**



Fire resistance:  
C in accordance with UL 790

SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.  
Any other roof sheeting install requires consultation with Sunman or its local importer.  
Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527.  
Mounting module with clamps is not suitable. Please refer to installation manual for mounting method.

SMDUW/IEC AU 2021A

## ELECTRICAL CHARACTERISTICS

| STC                                | SMD355F-6X20UW  | SMD360F-6X20UW |
|------------------------------------|-----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 355             | 360            |
| Maximum Power Voltage ( $V_{mp}$ ) | 34.7            | 34.9           |
| Maximum Power Current ( $I_{mp}$ ) | 10.24           | 10.32          |
| Open-circuit Voltage ( $V_{oc}$ )  | 41.1            | 41.3           |
| Short-circuit Current ( $I_{sc}$ ) | 10.72           | 10.82          |
| Module Efficiency (%)              | 18.3            | 18.5           |
| 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                               | SMD355F-6X20UW | SMD360F-6X20UW |
|------------------------------------|----------------|----------------|
| Maximum Power ( $P_{max}$ )        | 268.4          | 272.2          |
| Maximum Power Voltage ( $V_{mp}$ ) | 32.0           | 32.2           |
| Maximum Power Current ( $I_{mp}$ ) | 8.39           | 8.46           |
| Open-circuit Voltage ( $V_{oc}$ )  | 38.6           | 38.8           |
| Short-circuit Current ( $I_{sc}$ ) | 8.69           | 8.77           |

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 | 1809×1075×5.6 mm  |
| Weight            | 7.1kg   |
| Backsheet         | White   |
| Frame             | Black 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    | 50+40  | 50     |
| Pieces per container | 540    | 1200   |



# eArc

## SMD430F-6X24UW

# 430 Watt

## 144 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 8.3 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.



**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.

POWER OUTPUT RANGE 425~430 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

**LINEAR PERFORMANCE WARRANTY**

**10 Year Product Warranty**

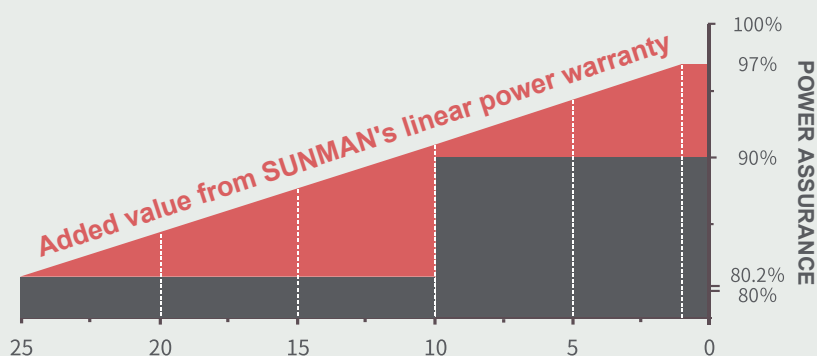
**25 Year Linear Power Warranty**



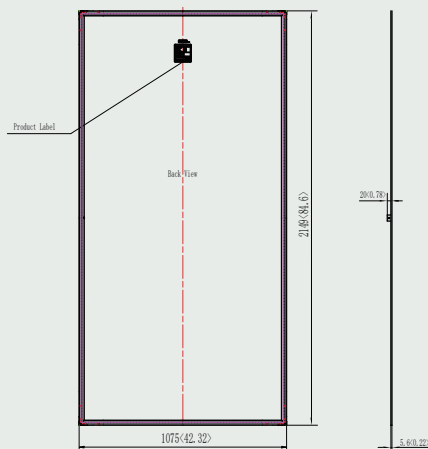
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

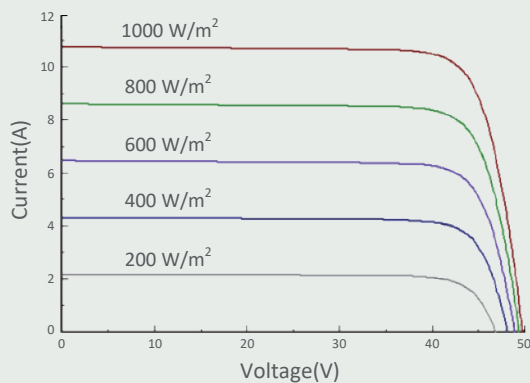
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## DIMENSIONS



## 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**



Fire resistance:  
C in accordance with UL 790

SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.  
Any other roof sheeting install requires consultation with Sunman or its local importer.  
Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527.  
Mounting module with clamps is not suitable.  
Please refer to installation manual for mounting method.


SMDUW/IEC AU 2021A

## ELECTRICAL CHARACTERISTICS

| STC   | SMD425F-6X24UW  | SMD430F-6X24UW |
|---|-----------------|----------------|
| Maximum Power ( $P_{max}$ )   | 425             | 430            |
| Maximum Power Voltage ( $V_{mp}$ )                                      | 41.8            | 42.0           |
| Maximum Power Current ( $I_{mp}$ )                                      | 10.17           | 10.24          |
| Open-circuit Voltage ( $V_{oc}$ )                                       | 49.6            | 49.8           |
| Short-circuit Current ( $I_{sc}$ )                                      | 10.67           | 10.74          |
| Module Efficiency (%)   | 18.4            | 18.6           |
| 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/m <sup>2</sup> , Cell temperature 25 °C , AM=1.5. |                 |                |
| Tolerances of $P_{max}$ , $V_{oc}$ and $I_{sc}$ are within ±5%          |                 |                |

| NMOT   | SMD425F-6X24UW | SMD430F-6X24UW |
|--|----------------|----------------|
| Maximum Power ( $P_{max}$ )  | 321.4          | 325.1          |
| Maximum Power Voltage ( $V_{mp}$ )   | 38.6           | 38.8           |
| Maximum Power Current ( $I_{mp}$ )   | 8.33           | 8.38           |
| Open-circuit Voltage ( $V_{oc}$ )  | 46.6           | 46.8           |
| Short-circuit Current ( $I_{sc}$ )   | 8.64           | 8.69           |
| 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 | 2149×1075×5.6 mm  |
| Weight            | 8.3kg   |
| Backsheet         | White   |
| Frame             | Black 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    | 50+40  | 50     |
| Pieces per container | 450    | 1000   |

# eArc

## SMD440F-6X24UW

# 440 Watt

## 144 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 8.3 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.



**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.

POWER OUTPUT RANGE 435~440 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

**LINEAR PERFORMANCE WARRANTY**

**10 Year Product Warranty**

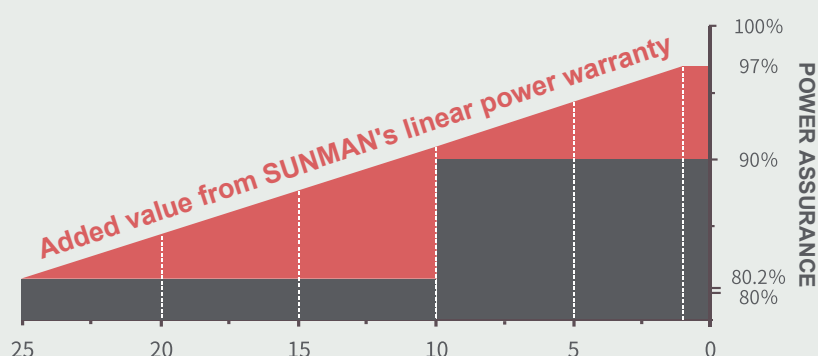
**25 Year Linear Power Warranty**



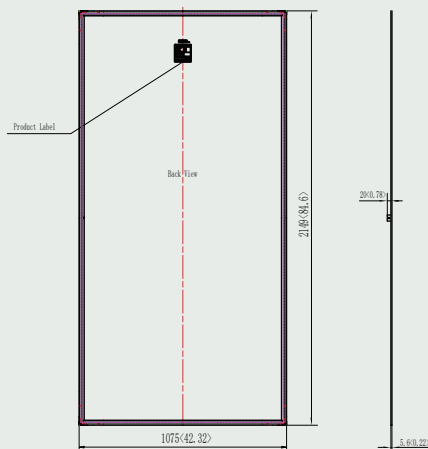
[www.sunman-energy.com](http://www.sunman-energy.com)

CAUTION: Read installation manual before using the product.

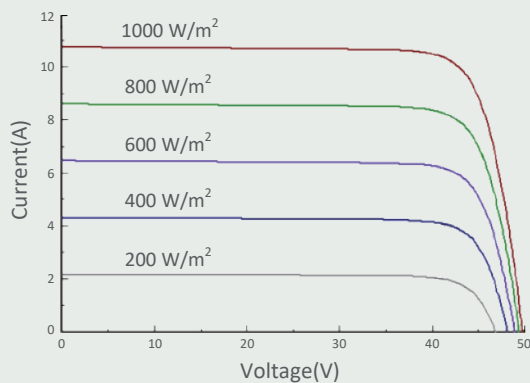
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## DIMENSIONS



## 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**



Fire resistance:  
C in accordance with UL 790

SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.  
Any other roof sheeting install requires consultation with Sunman or its local importer.  
Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527.  
Mounting module with clamps is not suitable. Please refer to installation manual for mounting method.

SMDUW/IEC AU 2021A

## ELECTRICAL CHARACTERISTICS

| STC                                | SMD435F-6X24UW  | SMD440F-6X24UW |
|------------------------------------|-----------------|----------------|
| 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 (%)              | 18.8            | 19.0           |
| 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                               | SMD435F-6X24UW | SMD440F-6X24UW |
|------------------------------------|----------------|----------------|
| 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 | 2149×1075×5.6 mm  |
| Weight            | 8.3kg   |
| Backsheet         | White   |
| Frame             | Black 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    | 50+40  | 50     |
| Pieces per container | 450    | 1000   |