

# Sable 425-450W

High efficiency bifacial modules

**TOPCon 182mm**

## • TOPCon MODULE ADVANTAGE



Multi-Busbar  
technology



Superior load  
capacity



High module  
efficiency



Excellent  
low-light  
performance



Lower annual  
attenuation  
Longer warranty



Low BOS and  
LCOE



Reduce hot  
spot effect



Higher  
bifaciality

## • QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

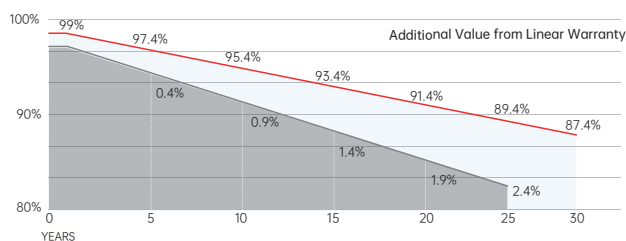
## • PRODUCT CERTIFICATION



## • INSURANCE

**PICC**

## • WARRANTY



Guarantee on product  
material and workmanship



Linear power  
output warranty



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## Mechanical Specifications

|                    |                                                             |
|--------------------|-------------------------------------------------------------|
| External Dimension | 1722 x 1134 x 30 mm                                         |
| Weight             | 20.6 kg                                                     |
| Solar Cells        | 182N-TOPCon (108pcs)                                        |
| Front / Back Glass | 1.6mm AR coating semi-tempered glass, low iron              |
| Frame              | Anodized aluminium alloy                                    |
| Junction Box       | IP68, 3 diodes                                              |
| Output Cables      | 4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length |

## Packing Configuration

|                       |       |       |
|-----------------------|-------|-------|
| Container             | 20'GP | 40'HQ |
| Pieces per Pallet     | 36    | 36    |
| Pallets per Container | 6     | 26    |
| Pieces per Container  | 216   | 936   |

## Electrical Characteristics

| Module Type                                | SRP-425-BTD-BG |            | SRP-430-BTD-BG |            | SRP-435-BTD-BG |            | SRP-440-BTD-BG |            | SRP-445-BTD-BG |            | SRP-450-BTD-BG |            |
|--------------------------------------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
|                                            | Front STC      | Front BNPI | Front STC      | Front BNPI | Front STC      | Front BNPI | Front STC      | Front BNPI | Front STC      | Front BNPI | Front STC      | Front BNPI |
| Maximum Power -P <sub>mp</sub> (W)         | 425            | 466        | 430            | 471        | 435            | 477        | 440            | 482        | 445            | 488        | 450            | 493        |
| Open Circuit Voltage -V <sub>oc</sub> (V)  | 38.70          | 38.78      | 38.90          | 38.98      | 39.10          | 39.18      | 39.30          | 39.38      | 39.50          | 39.58      | 39.70          | 39.78      |
| Short Circuit Current -I <sub>sc</sub> (A) | 13.91          | 15.25      | 13.99          | 15.33      | 14.07          | 15.42      | 14.15          | 15.51      | 14.23          | 15.60      | 14.31          | 15.68      |
| Maximum Power Voltage -V <sub>mp</sub> (V) | 32.10          | 32.18      | 32.30          | 32.38      | 32.50          | 32.58      | 32.70          | 32.78      | 32.90          | 32.98      | 33.10          | 33.18      |
| Maximum Power Current -I <sub>mp</sub> (A) | 13.24          | 14.47      | 13.32          | 14.55      | 13.39          | 14.63      | 13.47          | 14.71      | 13.54          | 14.79      | 13.61          | 14.86      |
| Module Efficiency STC-η <sub>m</sub> (%)   | 21.76          |            | 22.02          |            | 22.28          |            | 22.53          |            | 22.79          |            | 23.04          |            |
| Power Tolerance (W)                        | (0, +4.99)     |            |                |            |                |            |                |            |                |            |                |            |

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%  
BNPI: front 1000 W/m<sup>2</sup> rear 135 W/m<sup>2</sup> Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%

## Rear Side Power Gain( SRP-440-BTD-BG )

|                                            |       |       |       |       |       |
|--------------------------------------------|-------|-------|-------|-------|-------|
| Power Gain                                 | 10%   | 15%   | 20%   | 25%   | 30%   |
| Maximum Power -P <sub>mp</sub> (W)         | 484   | 506   | 528   | 550   | 572   |
| Open Circuit Voltage -V <sub>oc</sub> (V)  | 39.30 | 39.30 | 39.30 | 39.30 | 39.30 |
| Short Circuit Current -I <sub>sc</sub> (A) | 15.57 | 16.27 | 16.98 | 17.69 | 18.40 |
| Maximum Power Voltage -V <sub>mp</sub> (V) | 32.70 | 32.70 | 32.70 | 32.70 | 32.70 |
| Maximum Power Current -I <sub>mp</sub> (A) | 14.82 | 15.49 | 16.16 | 16.84 | 17.51 |

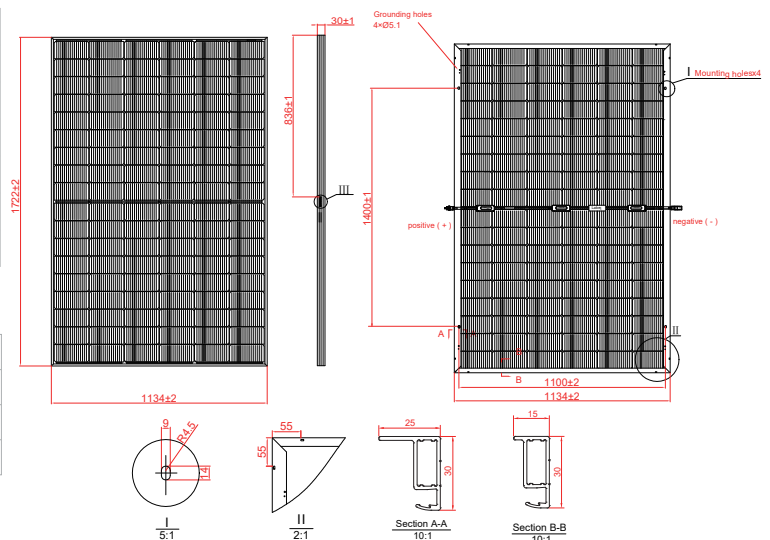
## Temperature Ratings

|                              |             |
|------------------------------|-------------|
| Pmax Temperature Coefficient | -0.29 %/°C  |
| Voc Temperature Coefficient  | -0.25 %/°C  |
| Isc Temperature Coefficient  | +0.046 %/°C |

## Application Conditions

|                                    |                                        |
|------------------------------------|----------------------------------------|
| Maximum System Voltage             | 1500V DC                               |
| Maximum Series Fuse Rating         | 25 A                                   |
| Operating Temperature              | -40~+85 °C                             |
| Nominal Operating Cell Temperature | 45±2 °C                                |
| Bifaciality                        | 80%±5%                                 |
| Mechanical Load                    | Front side 5400 Pa / Back side 2400 Pa |

## Technical drawing



## I-V Curve

