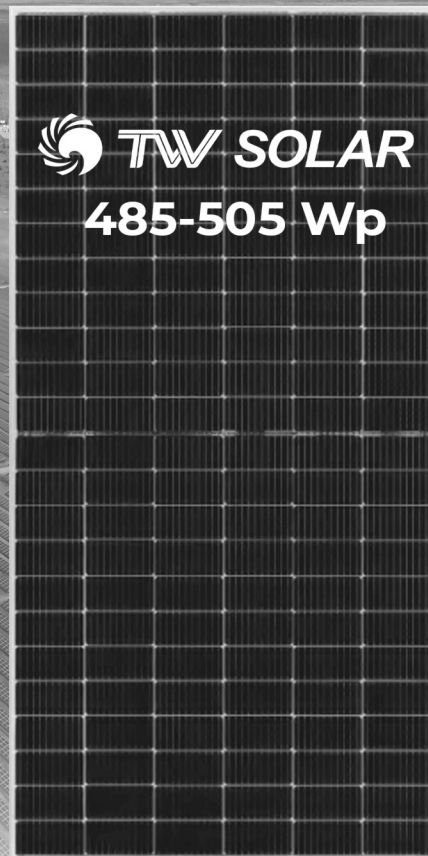




## 「TW485-505MBAP-M10-132-D」



### Celdas

132



### Eficiencia

Hasta 21,3 %



### Dimensiones del módulo

2093 X 1134 X 30 mm



### Características del módulo

Bifacial



### Packaging

36 módulos por pallet,  
792 módulos por 40'HC



### Tecnología

P-Type



### Garantía del producto

12 años de garantía



### Garantía del rendimiento

30 años de garantía



MBB Half-cell Bifacial Module (66)

# TW485~505PERC M10-132-D

## PRODUCT FEATURES



High Power Output  
Low LCOE



Maximum Power  
505W<sup>+</sup>



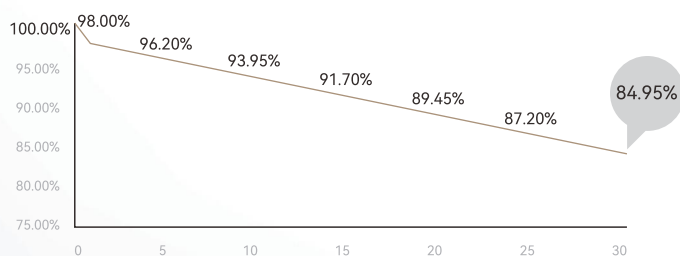
High  
Reliability



Low  
LID

## POWER WARRANTY

1st year <2%, 0.45% power degradation per year from 2 to 25years



12-year warranty for materials



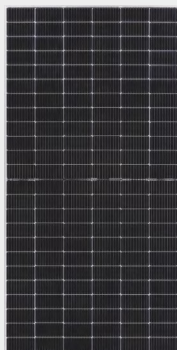
30-year warranty for linear power output

## MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

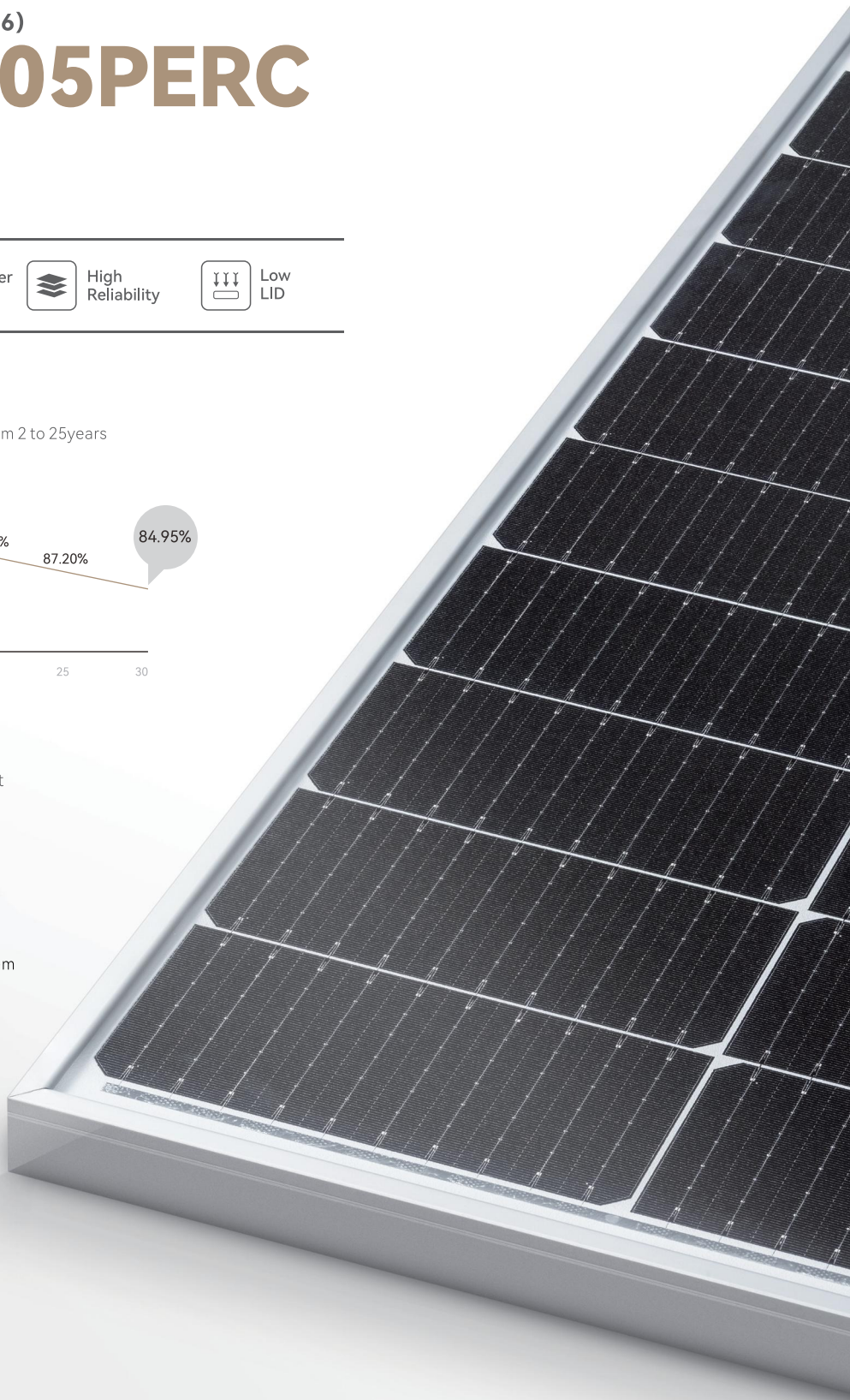
ISO45001: 2018/Occupational Health and Safety



Front



Rear



## Electrical Characteristics (STC)

Module type: TW\*\*\*MBAP-132-D

|                                                                                                           |       |       |       |       |       |
|-----------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| Maximum power: Pmax (W)                                                                                   | 485   | 490   | 495   | 500   | 505   |
| Open circuit voltage: Voc (V)                                                                             | 45.2  | 45.4  | 45.6  | 45.8  | 46    |
| Short circuit current: Isc (A)                                                                            | 13.67 | 13.72 | 13.77 | 13.82 | 13.87 |
| Voltage at maximum power point: Vmp (V)                                                                   | 37.69 | 37.86 | 38.03 | 38.2  | 38.37 |
| Current at maximum power point: Imp (A)                                                                   | 12.87 | 12.94 | 13.02 | 13.09 | 13.16 |
| Module efficiency: $\eta$ (%)                                                                             | 20.3  | 20.6  | 20.8  | 21.0  | 21.3  |
| STC: Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass1.5, Measuring tolerance: $\pm 3\%$ |       |       |       |       |       |

## Electrical Characteristics (NMOT)

|                                                                                                |       |       |       |       |       |
|------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| Maximum power: Pmax (W)                                                                        | 367.0 | 370.8 | 374.6 | 378.4 | 382.2 |
| Open circuit voltage: Voc (V)                                                                  | 42.20 | 42.46 | 42.71 | 42.98 | 43.24 |
| Short circuit current: Isc (A)                                                                 | 10.95 | 10.99 | 11.03 | 11.07 | 11.11 |
| Voltage at maximum power point: Vmp (V)                                                        | 34.84 | 35.03 | 35.22 | 35.41 | 35.60 |
| Current at maximum power point: Imp (A)                                                        | 10.52 | 10.57 | 10.63 | 10.68 | 10.74 |
| NMOT: Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20 °C, Air Mass1.5, Wind Speed 1m/s |       |       |       |       |       |

## Electrical characteristics with different rear side power gain

|     |                               |       |       |       |       |       |
|-----|-------------------------------|-------|-------|-------|-------|-------|
| 5%  | Maximum power: Pmax (W)       | 509.3 | 514.5 | 519.8 | 525.0 | 530.3 |
|     | Module efficiency: $\eta$ (%) | 19.7  | 19.9  | 20.1  | 20.3  | 20.5  |
| 15% | Maximum power: Pmax (W)       | 557.8 | 563.5 | 569.3 | 575.0 | 580.8 |
|     | Module efficiency: $\eta$ (%) | 21.6  | 21.8  | 22.0  | 22.3  | 22.5  |
| 25% | Maximum power: Pmax (W)       | 606.3 | 612.5 | 618.8 | 625.0 | 631.3 |
|     | Module efficiency: $\eta$ (%) | 23.5  | 23.7  | 24.0  | 24.2  | 24.4  |

## Mechanical Parameters

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| Cells          | P-TPC                                                                           |
| Orientation    | 132 (6×24)                                                                      |
| Size           | 2093±2×1134±2×30mm                                                              |
| Weight         | 29.8kg                                                                          |
| Front Glass    | 2.0mm AR coated heat strengthened glass                                         |
| Rear Glass     | 2.0mm heat strengthened glass                                                   |
| Frame          | Anodized aluminum alloy frame                                                   |
| Junction Box   | IP68, 3 diodes                                                                  |
| Cable          | 4.0mm <sup>2</sup> , Positive: 280mm, Negative: 280mm, length can be customized |
| Connector      | MC4 Compatible                                                                  |
| Wind/Snow Load | 2400Pa/5400Pa                                                                   |
| Packaging      | 36pcs per pallet, 792pcs per 40'HC                                              |

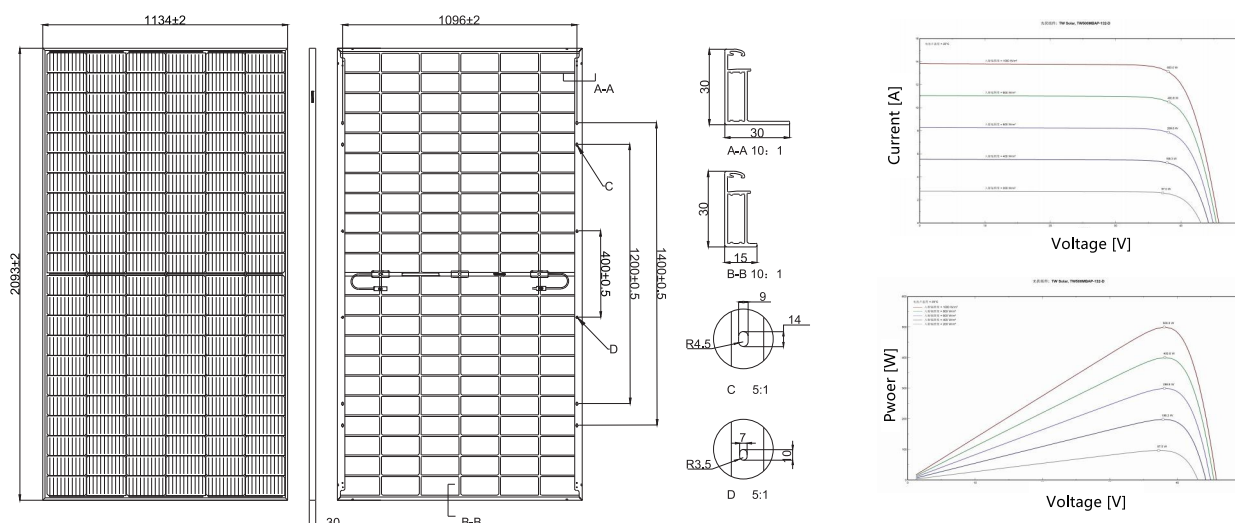
## Operating Parameters

|                            |             |
|----------------------------|-------------|
| Operational Temperature    | -40°C~+85°C |
| Maximum System Voltage     | 1500V DC    |
| Maximum Series Fuse Rating | 30A         |
| Power Output Tolerance     | 0~+5W       |
| Bifaciality                | 70±5%       |

## Temperature Ratings

|                                |           |
|--------------------------------|-----------|
| Temperature Coefficient (Pmax) | -0.34%/°C |
| Temperature Coefficient (Voc)  | -0.28%/°C |
| Temperature Coefficient (Isc)  | +0.05%/°C |
| NMOT                           | 45±2°C    |

## Drawings (Unit: mm)



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With technological progress and product updates, there may be deviations between the technical parameters of Tongwei's module products and the technical parameters contained in this specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar.