



Deutsche  
Qualität  
Garantiert



SILICON HETEROJUNCTION PV MODULE

# TME-132BDS 700W-720W

Enrich your energy yield

**23.21%**

MAXIMUM EFFICIENCY

**132**

HALF CELLS

**30 YEARS**

Performance Warranty

up to **30 YEARS\***

Product Warranty

\*The regular product warranty is 15 years, please refer to the latest version of AESOLAR Limited Warranty for the duration of the product warranty under special conditions. for extensions, please contact AESOLAR staff.



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



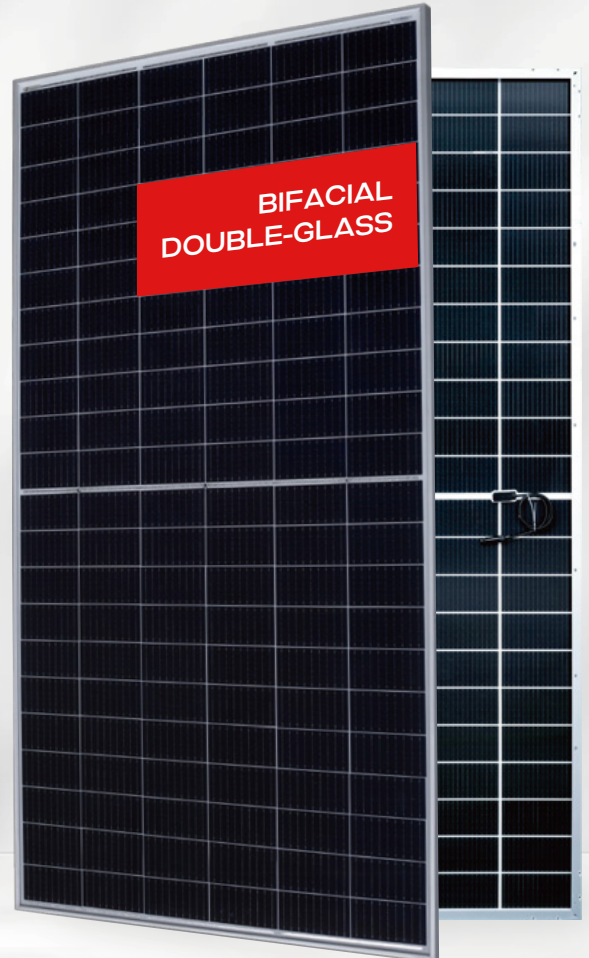
SAND  
RESISTANT



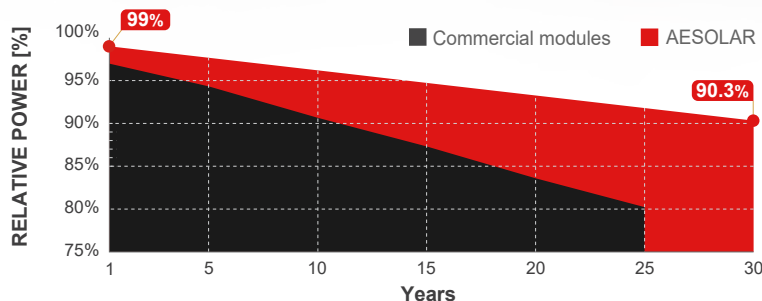
AMMONIA  
RESISTANT



HIGHLY STABLE  
AND TOUGH



## OUR PERFORMANCE WARRANTY



## SYSTEM AND PRODUCT CERTIFICATIONS



IEC 61215 IEC 61730  
Regular Production Surveillance  
www.tuv.com  
ID 1111257249



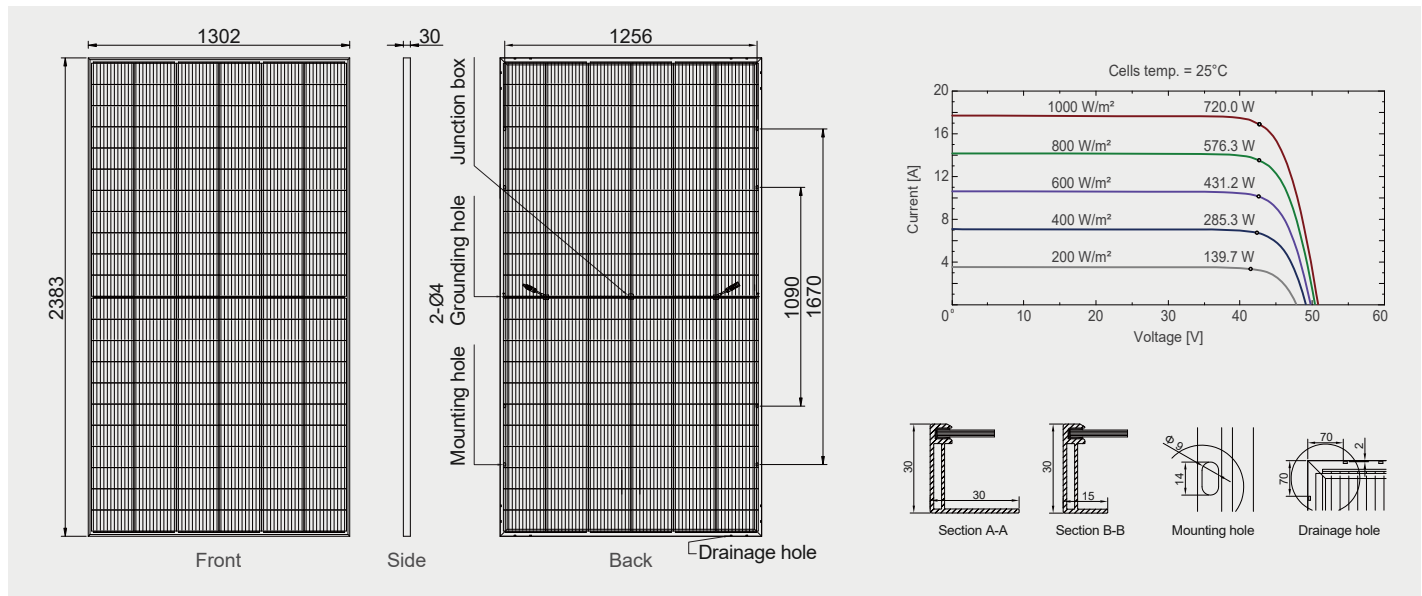
**AESOLAR**

[www.ae-solar.com](http://www.ae-solar.com)

# AE TME-132BDS 700W-720W

SILICON HETEROJUNCTION PV MODULE

BIFACIAL • DOUBLE-GLASS



## Electrical specifications (STC\*):

|                            |                |       |       |       |       |       |
|----------------------------|----------------|-------|-------|-------|-------|-------|
| Nominal max. power         | $P_{max}$ (Wp) | 700   | 705   | 710   | 715   | 720   |
| Maximum operating voltage  | $V_{MPP}$ (V)  | 42.10 | 42.24 | 42.39 | 42.54 | 42.68 |
| Maximum operating current  | $I_{MPP}$ (A)  | 16.63 | 16.69 | 16.75 | 16.81 | 16.87 |
| Open-circuit voltage       | $V_{oc}$ (V)   | 50.14 | 50.38 | 50.44 | 50.60 | 50.74 |
| Short-circuit current      | $I_{sc}$ (A)   | 17.43 | 17.49 | 17.55 | 17.61 | 17.67 |
| Module efficiency          | $\eta$ (%)     | 22.56 | 22.72 | 22.88 | 23.04 | 23.21 |
| Power tolerance            | (W)            | 0~+5  |       |       |       |       |
| Maximum system voltage     | (V)            | 1500  |       |       |       |       |
| Maximum series fuse rating | (A)            | 30    |       |       |       |       |

\*STC: Standard Test Conditions (irradiance 1000 W/m², cell temperature 25°C and air mass of AM1.5), measurement tolerance  $P_{max}$ : ±3%

## Electrical specifications (NMOT\*):

|                           |                |       |       |       |       |       |
|---------------------------|----------------|-------|-------|-------|-------|-------|
| Nominal max. power        | $P_{max}$ (Wp) | 525   | 529   | 533   | 536   | 540   |
| Maximum operating voltage | $V_{MPP}$ (V)  | 39.46 | 39.62 | 39.74 | 39.79 | 39.91 |
| Maximum operating current | $I_{MPP}$ (A)  | 13.30 | 13.35 | 13.41 | 13.47 | 13.53 |
| Open-circuit voltage      | $V_{oc}$ (V)   | 47.06 | 47.26 | 47.41 | 47.48 | 47.63 |
| Short-circuit current     | $I_{sc}$ (A)   | 13.94 | 13.99 | 14.05 | 14.11 | 14.17 |

\*NMOT: Normal Module Operating Temperature (irradiance 800 W/m², ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

## Bifacial electrical specifications

|                                               |             |             |             |             |             |
|-----------------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Max. power front-side<br>$P_{max front}$ (Wp) | 700         | 705         | 710         | 715         | 720         |
| Backside Power Gain                           | 5% 10%      | 5% 10%      | 5% 10%      | 5% 10%      | 5% 10%      |
| Total equivalent power<br>$P_{max equ}$ (Wp)  | 735 770     | 740 776     | 746 781     | 751 787     | 756 792     |
| Module efficiency<br>$\eta$ (%)               | 23.69 24.82 | 23.86 24.99 | 24.03 25.17 | 24.20 25.35 | 24.37 25.53 |

\*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on the mounting (structure, height, tilt angle, etc.) and albedo of the ground.

## Mechanical and design specification

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Cell type                      | Silicon heterojunction technology, half-cut cells    |
| No. of cells                   | 132                                                  |
| Bifaciality                    | 80 ± 5%                                              |
| Front cover                    | 2.0 mm glass, high transmission, AR coated, tempered |
| Encapsulation                  | POE                                                  |
| Back cover                     | 2.0 mm white glazed glass, tempered                  |
| Junction box                   | IP68 rated, 3 bypass diodes                          |
| Frame                          | 30 mm anodized aluminium alloy                       |
| Cable<br>(Including Connector) | 1 x 4 mm², 350 mm length or customized               |
| Connectors                     | MC 4 / MC 4 compatible                               |
| Dimension                      | 2383 mm x 1302 mm x 30 mm                            |
| Weight                         | 37 kg                                                |
| Hail resistance                | Max. Ø 25 mm at 23 m/s                               |
| Wind load                      | 2400 Pa or 244 kg/m²                                 |
| Snow load                      | 5400 Pa or 550 kg/m²                                 |

## Temperature ratings

|                                |              |
|--------------------------------|--------------|
| Operating temperature          | -40 to +85°C |
| Temp. coefficient of $P_{max}$ | -0.24 %/°C   |
| Temp. coefficient of $V_{oc}$  | -0.22 %/°C   |
| Temp. coefficient of $I_{sc}$  | 0.040 %/°C   |
| Nom. operating cell temp. NOCT | 44 ± 2°C     |

## Packaging information

|                         |                                       |
|-------------------------|---------------------------------------|
| Packaging configuration | 36 pcs / pallet                       |
| Loading capacity        | 648 pcs / 40 HQ                       |
| Size / Pallet           | 1350 mm x 1140 mm x 2500 mm (Upright) |
| Weight                  | 1364 kg / pallet                      |