

# MonoPower Large Half Cells

ASP MD-132 Series 495W-505W

Monocrystalline PV-module



## QUALITY & RELIABILITY

Best raw materials, optimized production process and accurate testing makes the quality difference



## GERMAN ENGINEERING

Best design by the art of German engineering



## SAVE INVESTMENT

Product warranty of 12 years and performance warranty of 25 years



## POSITIVE PERFORMANCE TOLERANCE

Up to +5 W plus-tolerance on output



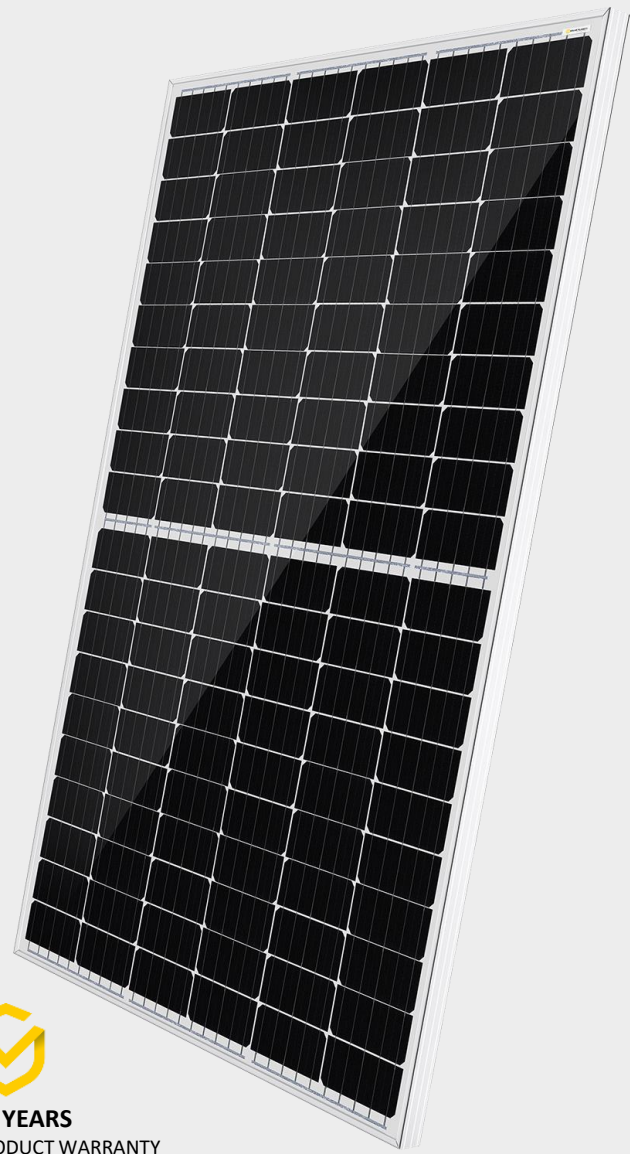
## FOR ALL ENVIRONMENTAL CONDITIONS

Resistant against PID, sand, salt and ammonia



## STABLE AND STRONG

Capable to bear heavy snow loads up to 5400 Pa and wind loads up to 2400 Pa

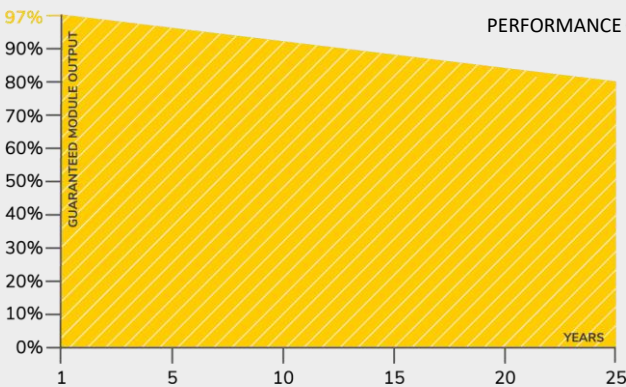


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



## CERTIFICATES



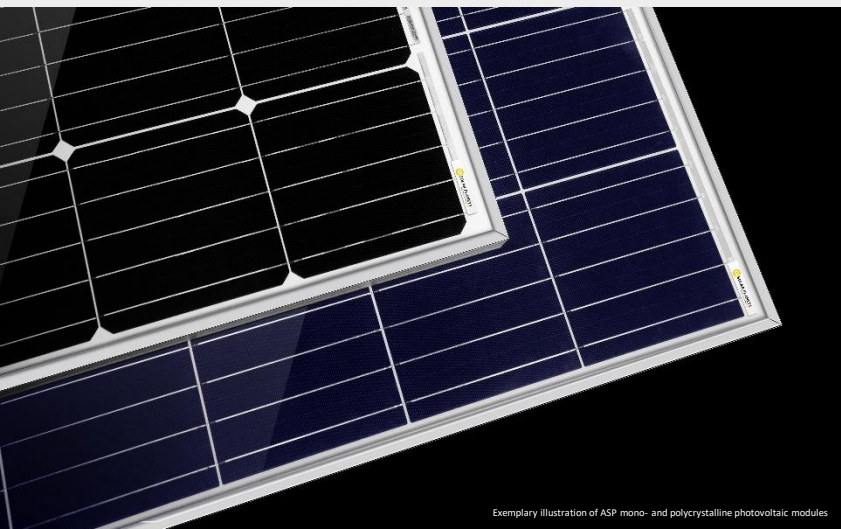
IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION



PID RESISTANT  
SALT MIST RESISTANT  
SAND RESISTANT  
CORROSIVE GAS (NH<sub>3</sub>)



**Quality  
Diligence  
Durability**



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## TECHNICAL DATA

ASP495MD-132

ASP500MD-132

ASP505MD-132

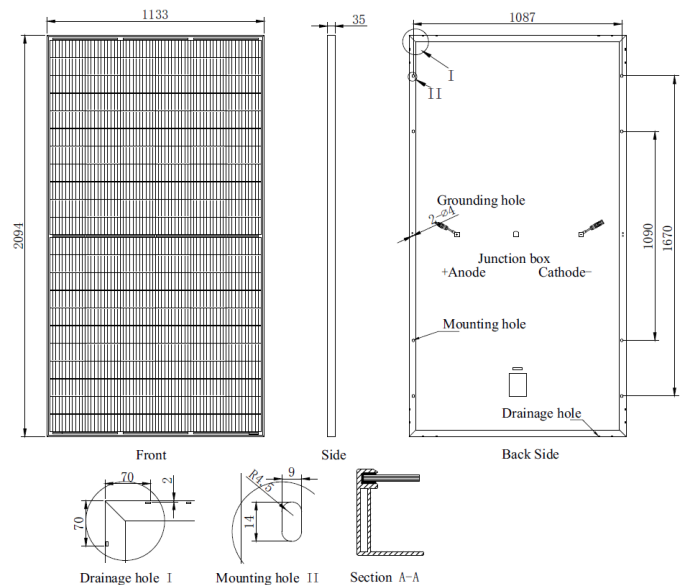
| Parameter                                    | Unit                  | ASP495MD-132 | ASP500MD-132 | ASP505MD-132 |
|--|-----------------------|--------------|--------------|--------------|
| Maximum power                                | P <sub>max</sub> (Wp) | 495          | 500          | 505          |
| Maximum power voltage                        | V <sub>mp</sub> (V)   | 38.79        | 39.03        | 39.27        |
| Maximum power current                        | I <sub>mp</sub> (A)   | 12.76        | 12.81        | 12.86        |
| Open-circuit voltage                         | V <sub>oc</sub> (V)   | 46.34        | 46.64        | 46.93        |
| Short-circuit current                        | I <sub>sc</sub> (A)   | 13.52        | 13.57        | 13.62        |
| Module efficiency                            | %                     | 20.9         | 21.1         | 21.3         |
| Power tolerance                              | P <sub>max</sub> (W)  |              | 0/+5         |              |
| Maximum system voltage DC                    | V                     |              | 1500         |              |
| Operating temperature                        | °C                    |              | -40 to +85   |              |
| Temperature coefficients of P <sub>max</sub> | %/°C                  |              | -0.350       |              |
| Temperature coefficients of V <sub>oc</sub>  | %/°C                  |              | -0.275       |              |
| Temperature coefficients of I <sub>sc</sub>  | %/°C                  |              | 0.045        |              |
| Nominal operating cell temp. (NOCT)          | °C                    |              | 45±2         |              |

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25°C.

## MATERIAL CHARACTERISTICS

|                 |                                     |
|-----------------|-------------------------------------|
| Cell type       | Monocrystalline 182 x 91 mm         |
| No. of cells    | 132 (6 x 22)                        |
| Dimensions      | 2094 x 1133 x 35 mm                 |
| Weight          | 26.0 kg                             |
| Junction box    | IP68 rated                          |
| Output cable    | 4.0 mm <sup>2</sup> , 350 mm length |
| Connector type  | MC4 / MC4 compatible                |
| Hail resistance | Max. Ø 25 mm, at 23 m/s             |
| Wind load       | 2400 Pa / 244 kg / m <sup>2</sup>   |
| Mechanical load | 5400 Pa / 550 kg / m <sup>2</sup>   |

## DRAWINGS



## PACKING INFORMATION

|                       |                         |
|-----------------------|-------------------------|
| Packing configuration | 60 pcs / double pallet  |
| Loading capacity      | 660 pcs / 40 HQ         |
| Size / pallet         | 2125 x 1135 x 2490mm    |
| Weight                | 1680 kg / double pallet |



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