

# MonoPower Basic

ASP M6-60 Series 310W-320W

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



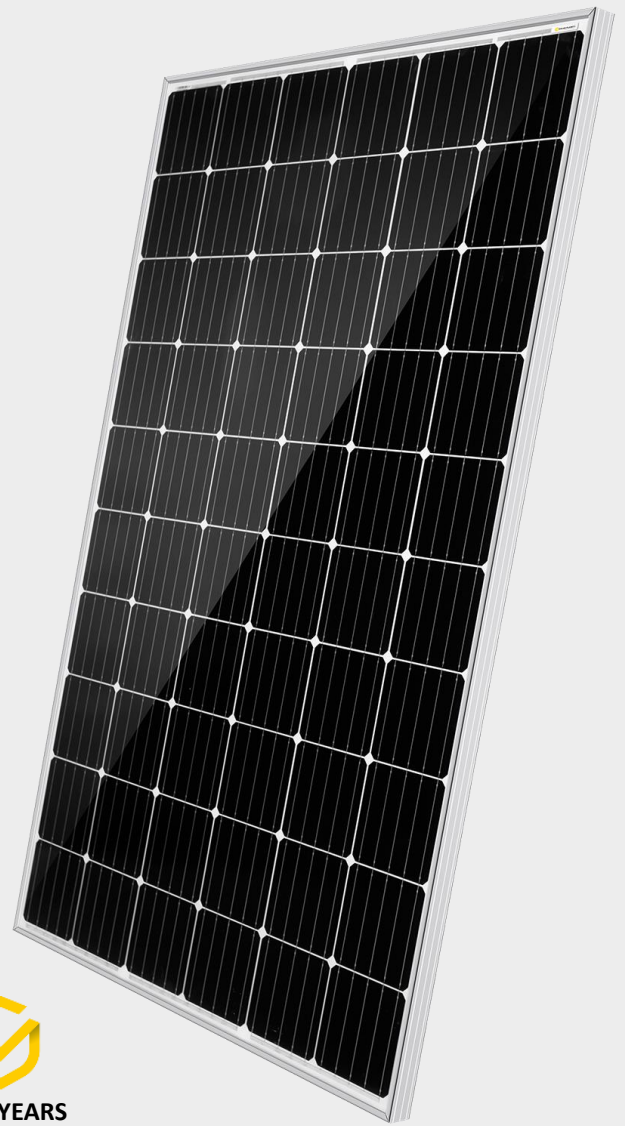
## FOR ALL ENVIRONMENTAL CONDITIONS

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

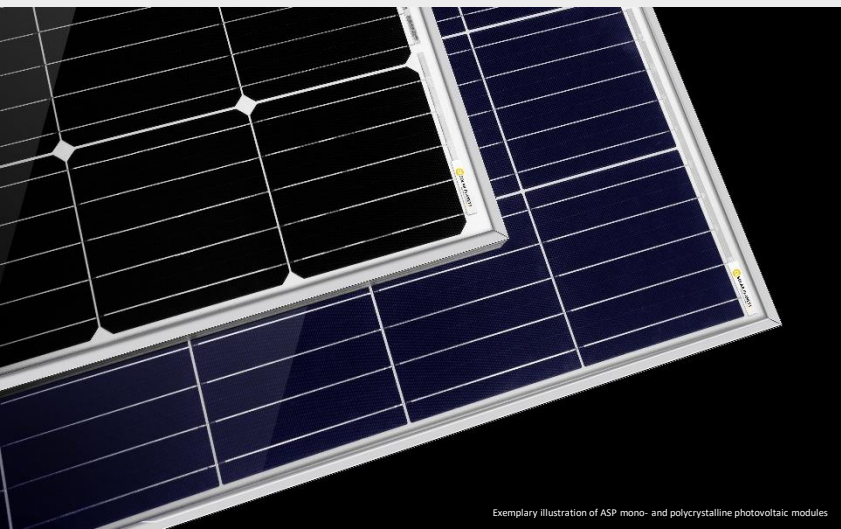
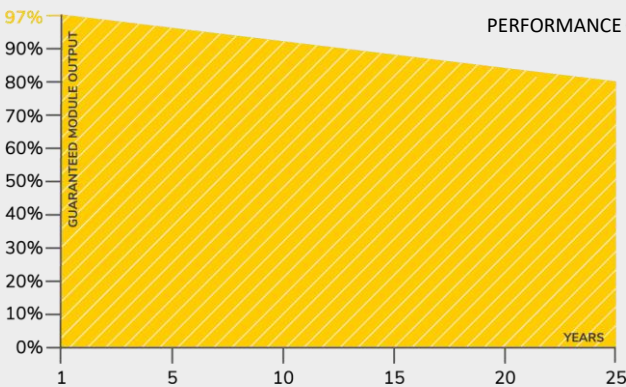


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



## CERTIFICATES

SGS  
**TÜV**  
SAAR

IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION

**SGS**

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

**CE CEC**

**Quality  
Diligence  
Durability**

**α SOLAR PLANET**  
Enjoy the quality difference

# MonoPower Basic Module

ASP M6-60 Series 310W-320W

## TECHNICAL DATA

ASP310M6-60

ASP315M6-60

ASP320M6-60

| Parameter                                    | Unit                  | ASP310M6-60 | ASP315M6-60 | ASP320M6-60 |
|--|-----------------------|-------------|-------------|-------------|
| Maximum power                                | P <sub>max</sub> (Wp) | 310         | 315         | 320         |
| Maximum power voltage                        | V <sub>mp</sub> (V)   | 34.42       | 34.83       | 35.19       |
| Maximum power current                        | I <sub>mp</sub> (A)   | 9.00        | 9.04        | 9.11        |
| Open-circuit voltage                         | V <sub>oc</sub> (V)   | 39.77       | 39.97       | 40.21       |
| Short-circuit current                        | I <sub>sc</sub> (A)   | 9.71        | 9.77        | 9.83        |
| Module efficiency                            | %                     | 18.93       | 19.24       | 19.55       |
| Power tolerance                              | P <sub>max</sub> (W)  | 0/+5        |             |             |
| Maximum system voltage DC                    | V                     | 1000        |             |             |
| Operating temperature                        | °C                    | -40 to +85  |             |             |
| Temperature coefficients of P <sub>max</sub> | %/°C                  | -0.38       |             |             |
| Temperature coefficients of V <sub>oc</sub>  | %/°C                  | -0.29       |             |             |
| Temperature coefficients of I <sub>sc</sub>  | %/°C                  | 0.05        |             |             |
| 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.

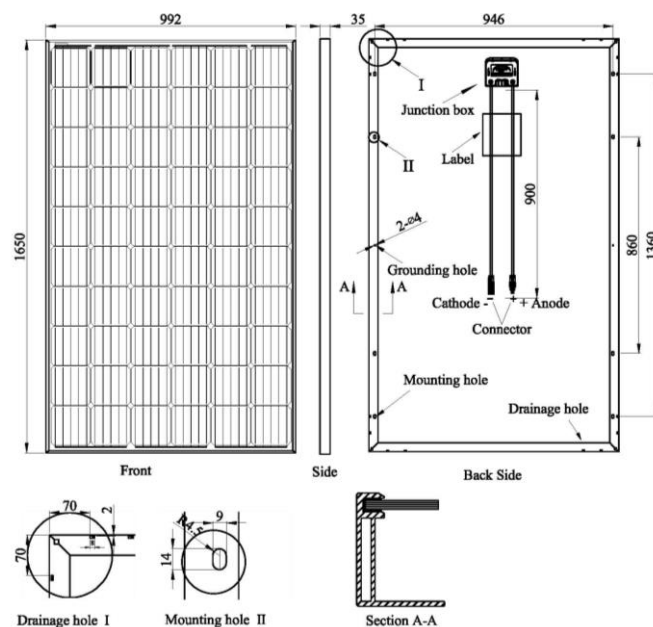
## MATERIAL CHARACTERISTICS

|                 |                                    |
|-----------------|------------------------------------|
| Cell type       | Monocrystalline 156.75 x 156.75 mm |
| No. of cells    | 60 (6 x 10)                        |
| Dimensions      | 1650 x 992 x 35 mm                 |
| Weight          | 17.5 kg                            |
| Junction box    | IP67 rated                         |
| Output cable    | 4.0 mm <sup>2</sup> , 900 mm       |
| 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>  |

## PACKING INFORMATION

|                       |                        |
|-----------------------|------------------------|
| Packing configuration | 64 pcs / double pallet |
| Loading capacity      | 896 pcs / 40 HQ        |
| Size / pallet         | 1685 x 1135 x 2390 mm  |
| Weight                | 1220 kg / pallet       |

## DRAWINGS



Alpha Solar Planet GmbH  
Döllgaststr. 4, 86199 Augsburg  
GERMANY

Tel.: +49 821 99972360  
Fax: +49 821 99972369

E-mail: sales@a-s-p.solar  
Web: www.a-s-p.solar

