

# MonoPower Large Half Cells

ASP HM6L-72 Series 405W-415W

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



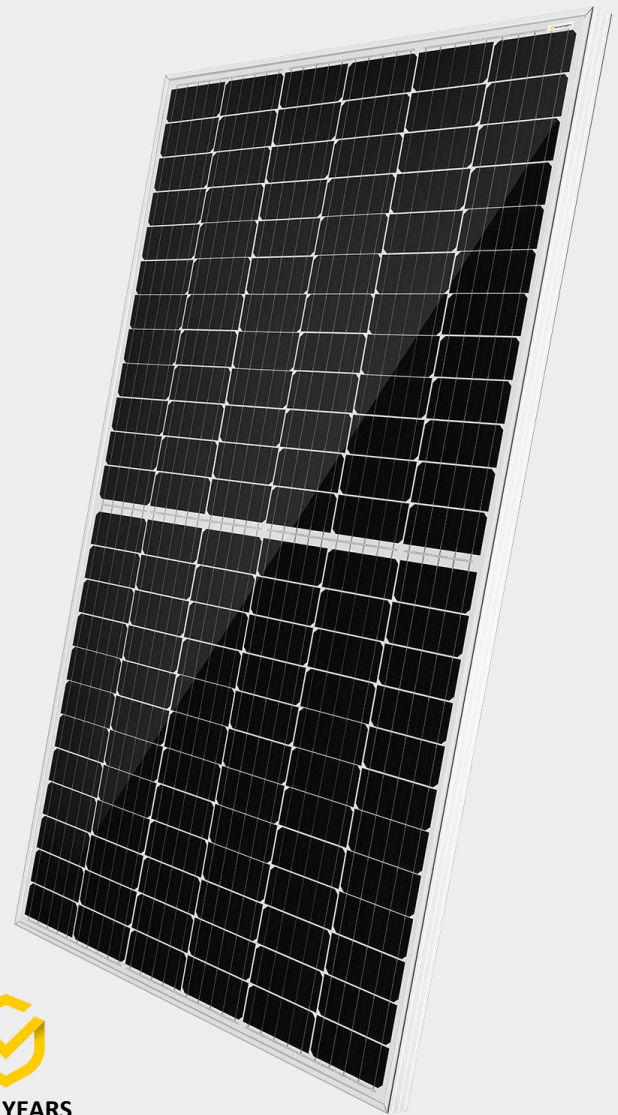
## FOR ALL ENVIRONMENTAL CONDITIONS

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

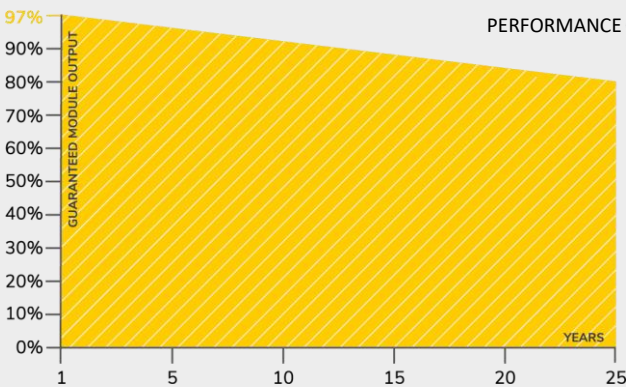


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



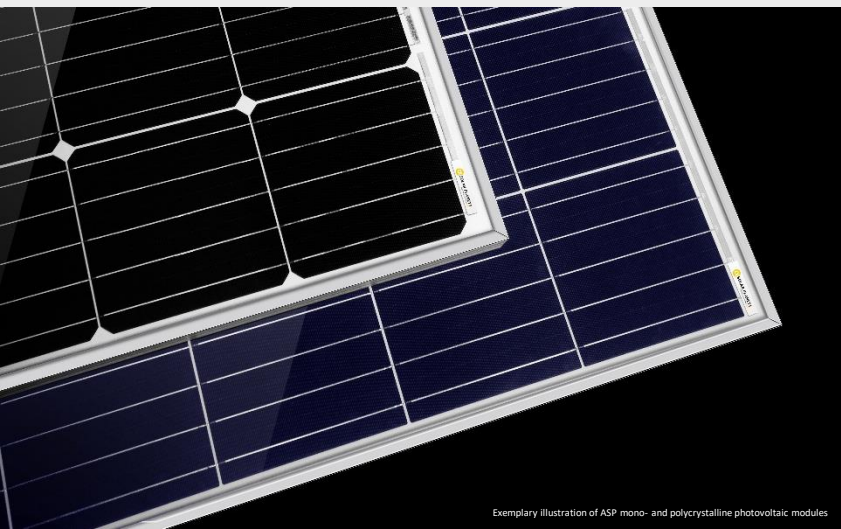
## CERTIFICATES



IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION



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



**ALPHA SOLAR PLANET**  
Enjoy the quality difference

# MonoPower Large Half Cells

ASP HM6L-72 Series 405W-415W

## TECHNICAL DATA

ASP405HM6L-72

ASP410HM6L-72

ASP415HM6L-72

Parameter	Unit	ASP405HM6L-72	ASP410HM6L-72	ASP415HM6L-72
Maximum power	P <sub>max</sub> (Wp)	405	410	415
Maximum power voltage	V <sub>mp</sub> (V)	41.59	41.85	42.09
Maximum power current	I <sub>mp</sub> (A)	9.74	9.80	9.86
Open-circuit voltage	V <sub>oc</sub> (V)	49.53	49.80	50.51
Short-circuit current	I <sub>sc</sub> (A)	10.31	10.38	10.44
Module efficiency	%	20.03	20.28	20.52
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	-0.353		
Temperature coefficients of V <sub>oc</sub>	%/°C	-0.28		
Temperature coefficients of I <sub>sc</sub>	%/°C	0.04		
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.

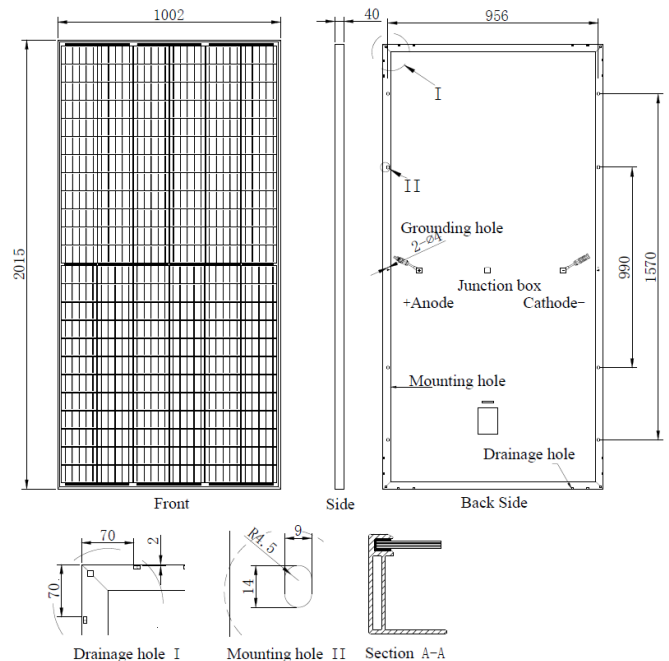
## MATERIAL CHARACTERISTICS

Cell type	Monocrystalline 158.75 x 79.38 mm
No. of cells	144 (6 x 24)
Dimensions	2015 x 1002 x 40 mm
Weight	22.8 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>

## PACKING INFORMATION

Packing configuration	58 pcs / double pallet
Loading capacity	638 pcs / 40 HQ
Size / pallet	2060 x 1120 x 2430 mm
Weight	1421 kg / double pallet

## DRAWINGS



Alpha Solar Planet GmbH  
Schwalbenweg 1 g, 86343 Königsbrunn  
GERMANY

Tel.: +49 8231 99190 70  
Fax: +49 8231 99190 89

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

