

# MonoPower Large Half Cells

ASP HM6L-72 Series 440W-450W

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



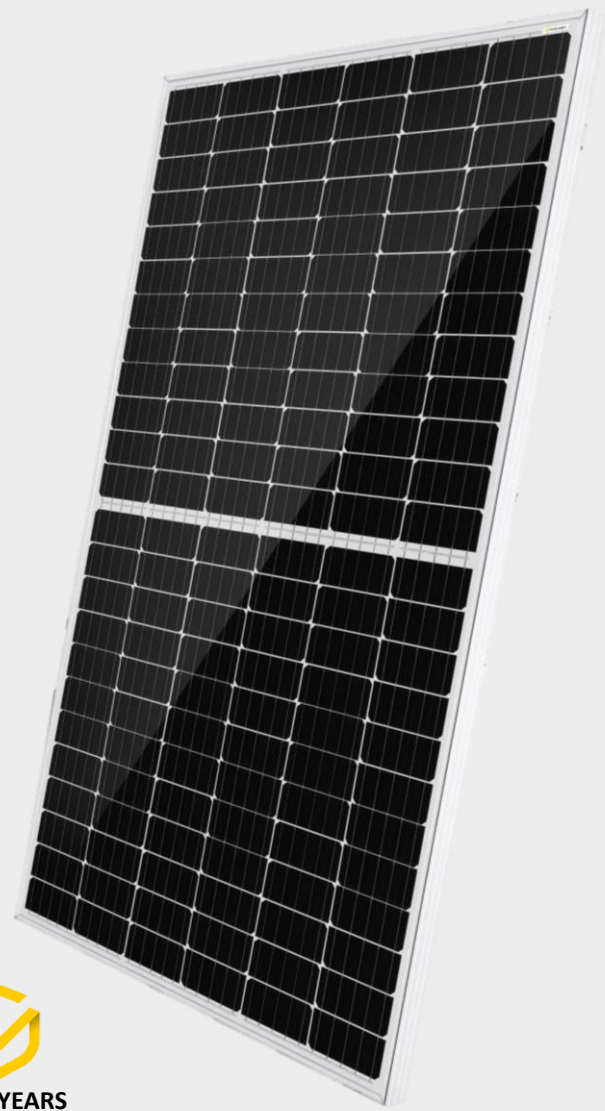
## FOR ALL ENVIRONMENTAL CONDITIONS

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

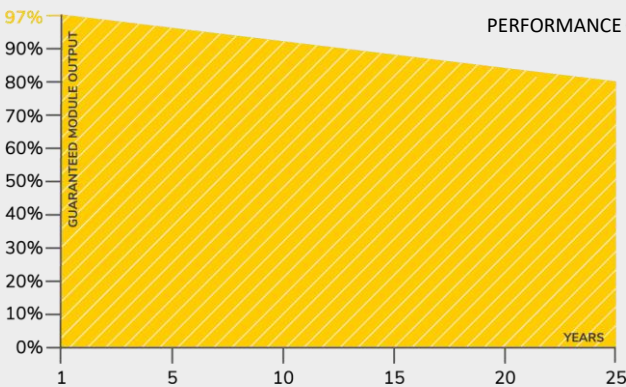


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



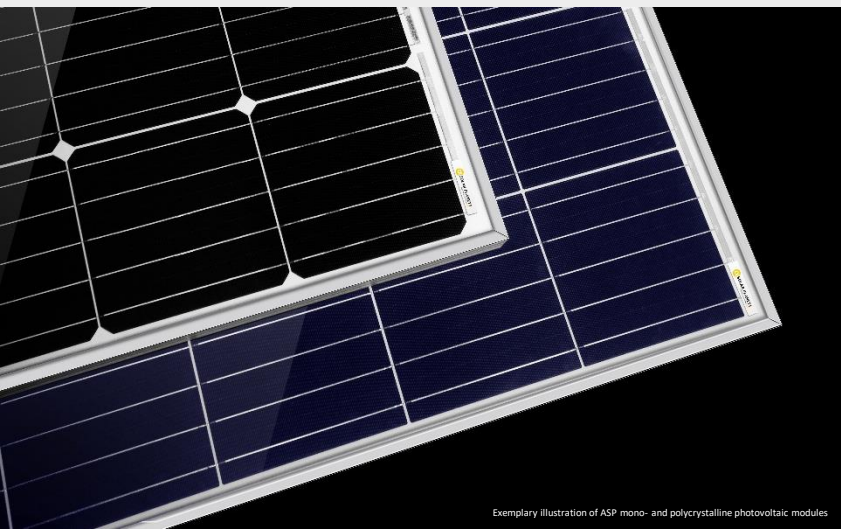
## CERTIFICATES



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 440W-450W

## TECHNICAL DATA

ASP440HM6L-72

ASP445HM6L-72

ASP450HM6L-72

Parameter	Unit	ASP440HM6L-72	ASP445HM6L-72	ASP450HM6L-72
Maximum power	P <sub>max</sub> (Wp)	440	445	450
Maximum power voltage	V <sub>mp</sub> (V)	41.0	41.2	41.4
Maximum power current	I <sub>mp</sub> (A)	10.74	10.80	10.87
Open-circuit voltage	V <sub>oc</sub> (V)	49.6	49.8	50.0
Short-circuit current	I <sub>sc</sub> (A)	11.33	11.46	11.54
Module efficiency	%	19.8	20.0	20.2
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		-0.370	
Temperature coefficients of V <sub>oc</sub>	%/°C		-0.286	
Temperature coefficients of I <sub>sc</sub>	%/°C		0.057	
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.

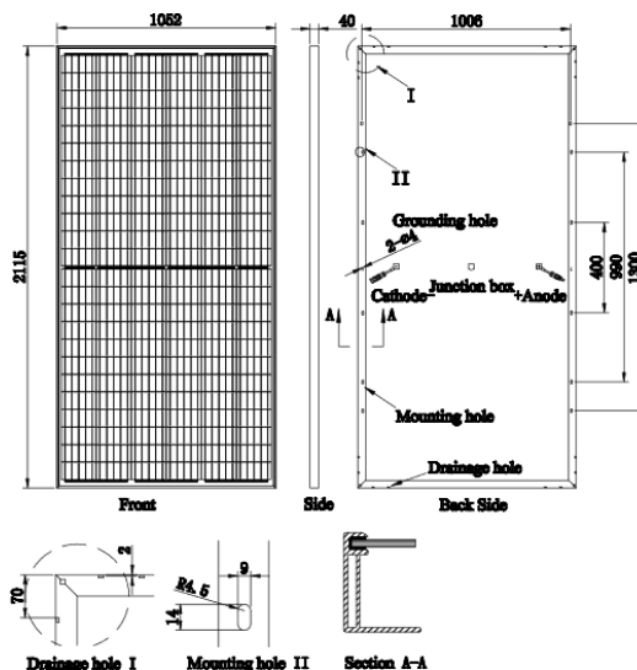
## MATERIAL CHARACTERISTICS

Cell type	Monocrystalline 166 x 83 mm
No. of cells	144 (6 x 24)
Dimensions	2115 x 1052 x 40 mm
Weight	24 kg
Junction box	IP 68 rated
Output cable	4.0 mm <sup>2</sup> , 350 mm length
Connector type	MC 4/MC 4 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	56 pcs/double pallet
Loading capacity	616 pcs/40 HQ
Size / pallet	2150 x 1140 x 2344 mm
Weight	1466 kg/double pallet

## DRAWINGS



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