

# MonoPower Large Half Cells

ASP HM6L-60 Series 450W-460W

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



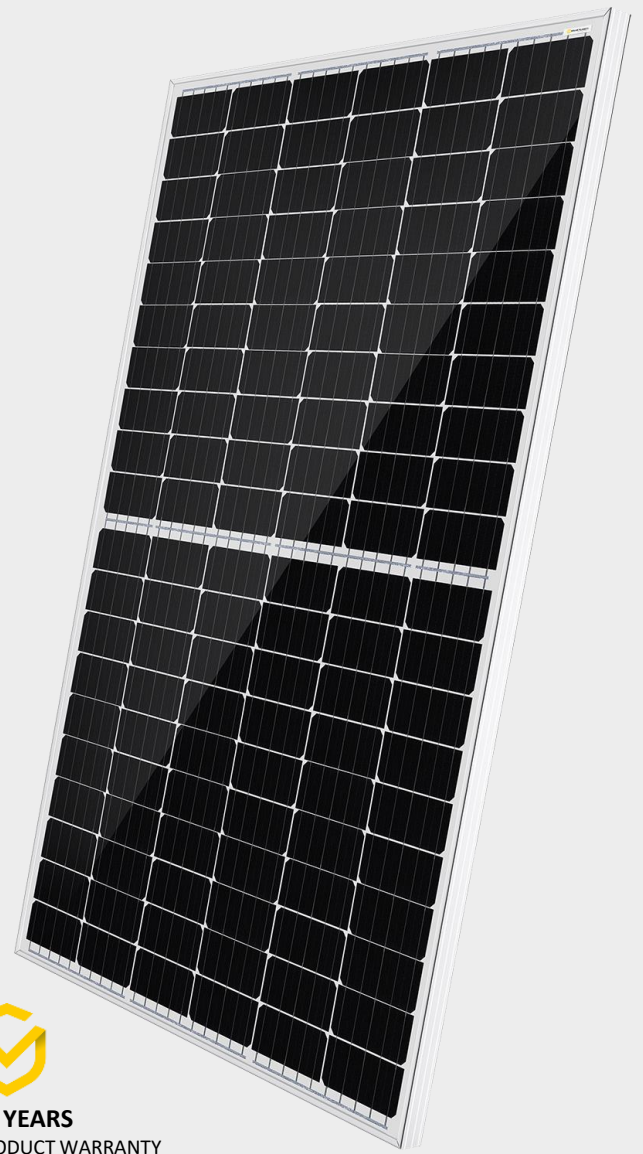
## FOR ALL ENVIRONMENTAL CONDITIONS

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

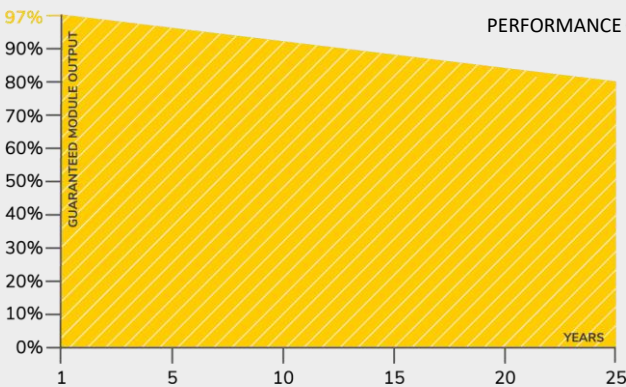


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



## CERTIFICATES



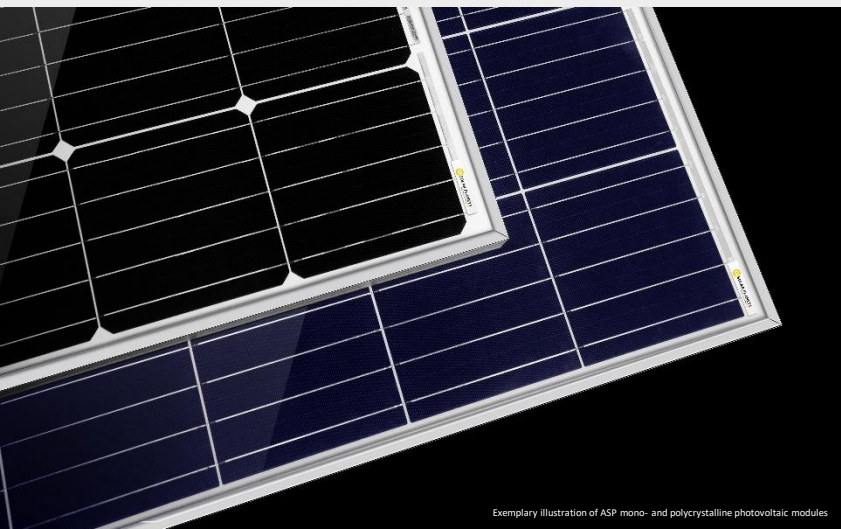
IEC 61215  
IEC 61730  
PERIODICAL  
INCEPTION



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



**Quality  
Diligence  
Durability**



# MonoPower Large Half Cells

ASP HM6L-60 Series 450W-460W

## TECHNICAL DATA

ASP450HM6L-60

ASP35HM6L-60

ASP380HM6L-60

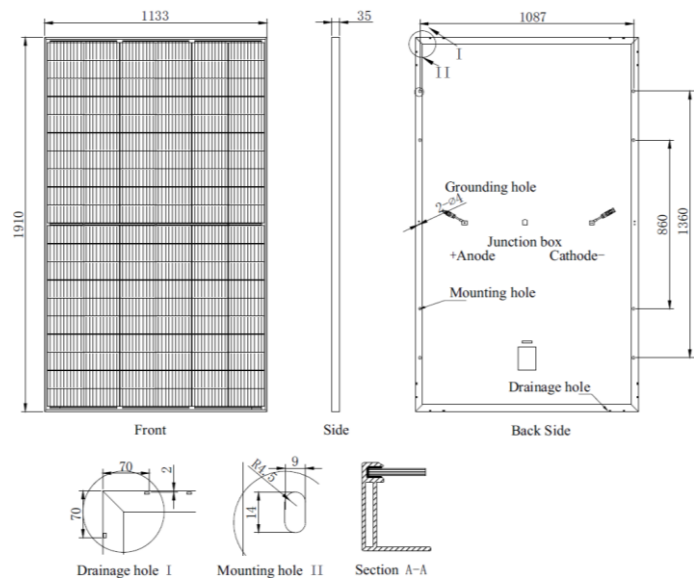
Parameter	Unit	ASP450HM6L-60	ASP35HM6L-60	ASP380HM6L-60
Maximum power	P <sub>max</sub> (Wp)	450	455	460
Maximum power voltage	V <sub>mp</sub> (V)	35.13	35.38	35.6
Maximum power current	I <sub>mp</sub> (A)	12.81	12.86	12.92
Open-circuit voltage	V <sub>oc</sub> (V)	41.98	42.29	42.6
Short-circuit current	I <sub>sc</sub> (A)	13.57	13.62	13.67
Module efficiency	%	20.8	21.0	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	120 (6 x 20)
Dimensions	1910 x 1133 x 35 mm
Weight	24.0 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	720 pcs / 40 HQ
Size / pallet	1945 x 1135 x 2490 mm
Weight	1550 kg / double pallet



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