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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Alpha Solar Planet GmbH  
ASP M5-72 Series 190W-215W  
ASP215M5-72**

Also available on the web at  
[EnergyPal.com/alpha-solar-planet-gmbh-solar-panels/asp215m5-72](http://EnergyPal.com/alpha-solar-planet-gmbh-solar-panels/asp215m5-72)

# MonoPower Micro

ASP M5-72 Series 190W-215W

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



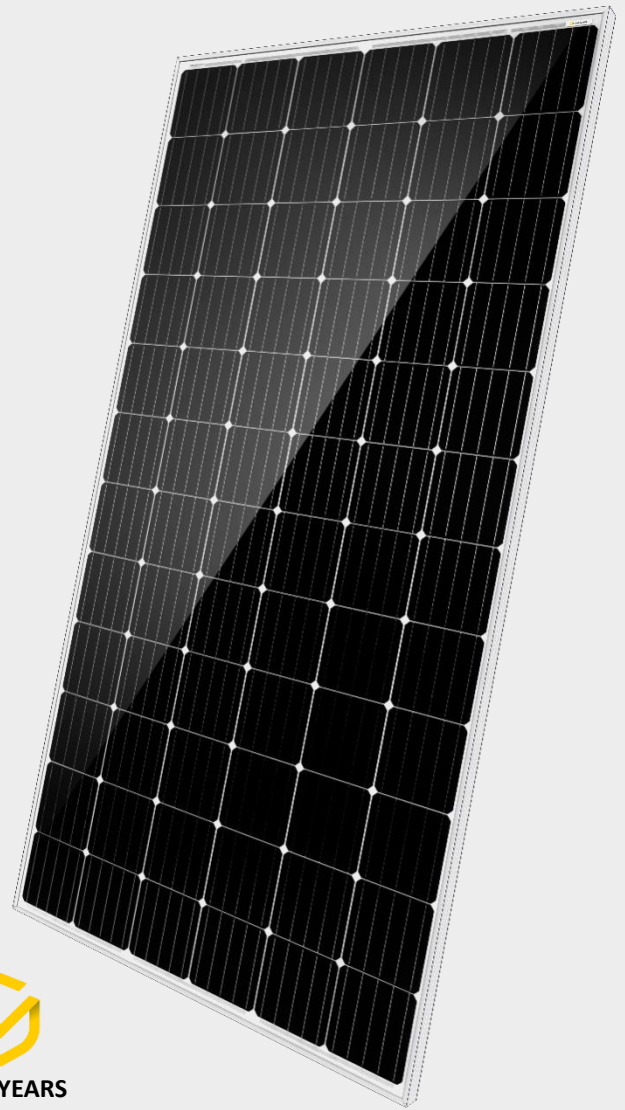
## FOR ALL ENVIRONMENTAL CONDITIONS

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

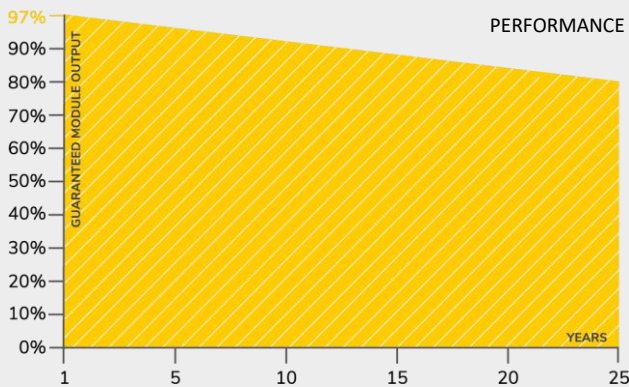


**12 YEARS**  
PRODUCT WARRANTY

## OUR PERFORMANCE GUARANTEE



**25 YEARS**  
PERFORMANCE GUARANTEE



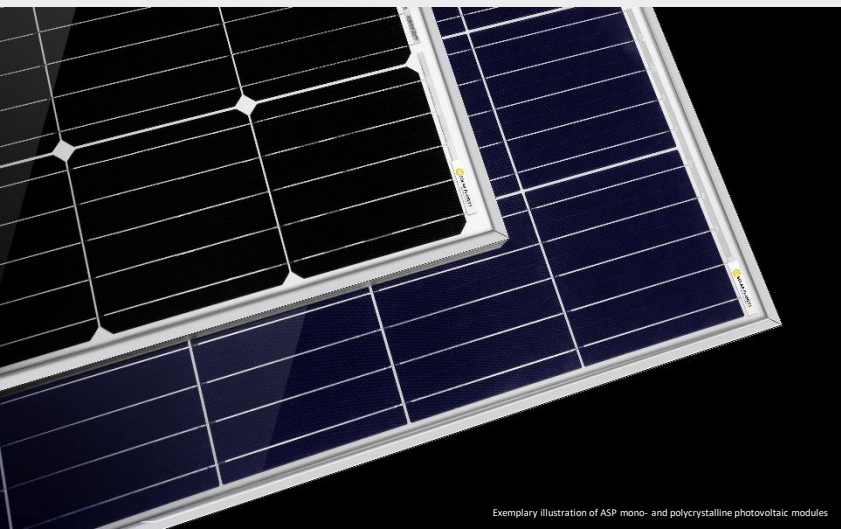
## CERTIFICATES



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 Micro Module

ASP M5-72 Series 190W-215W

## TECHNICAL DATA

ASP190M5-72    ASP195M5-72    ASP200M5-72    ASP205M5-72    ASP210M5-72    ASP215M5-72

Maximum power	P <sub>max</sub> (Wp)	190	195	200	205	210	215
Maximum power voltage	V <sub>mp</sub> (V)	38.08	38.19	38.30	38.40	38.51	38.62
Maximum power current	I <sub>mp</sub> (A)	4.99	5.11	5.22	5.34	5.45	5.57
Open-circuit voltage	V <sub>oc</sub> (V)	45.88	45.98	46.10	46.20	46.31	46.42
Short-circuit current	I <sub>sc</sub> (A)	5.61	5.66	5.70	5.75	5.79	5.84
Module efficiency	%	14.88	15.27	15.67	16.06	16.45	16.84
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	-0.36					
Temperature coefficients of V <sub>oc</sub>	%/°C	-0.36					
Temperature coefficients of I <sub>sc</sub>	%/°C	0.06					
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.

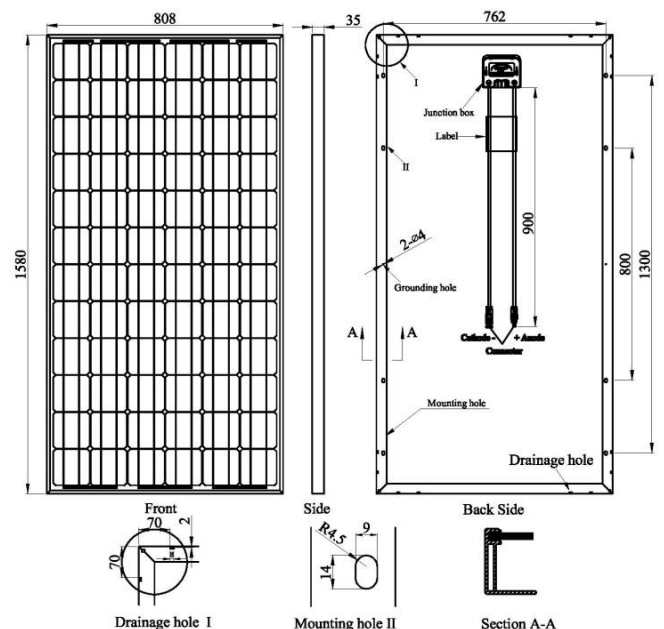
## MATERIAL CHARACTERISTICS

Cell type	Monocrystalline 125 x 125 mm
No. of cells	72 (6 x 12)
Dimensions	1580 x 808 x 35 mm
Weight	14 kg
Junction box	IP 67 rated
Output cable	4.0 mm <sup>2</sup> , 900 mm
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	70 pcs / double pallet
Loading capacity	980 pcs / 40 HQ
Size / pallet	1630 x 1135 x 2325 mm
Weight	1080 kg / pallet

## DRAWINGS



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