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Solar Panel Guide Specification Data Sheet

**Alpha Solar Planet GmbH
ASP M5-48 Series 120W-145W
ASP140M5-48**

Also available on the web at
EnergyPal.com/alpha-solar-planet-gmbh-solar-panels/asp140m5-48

MonoPower Micro

ASP M5-48 Series 120W-145W

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



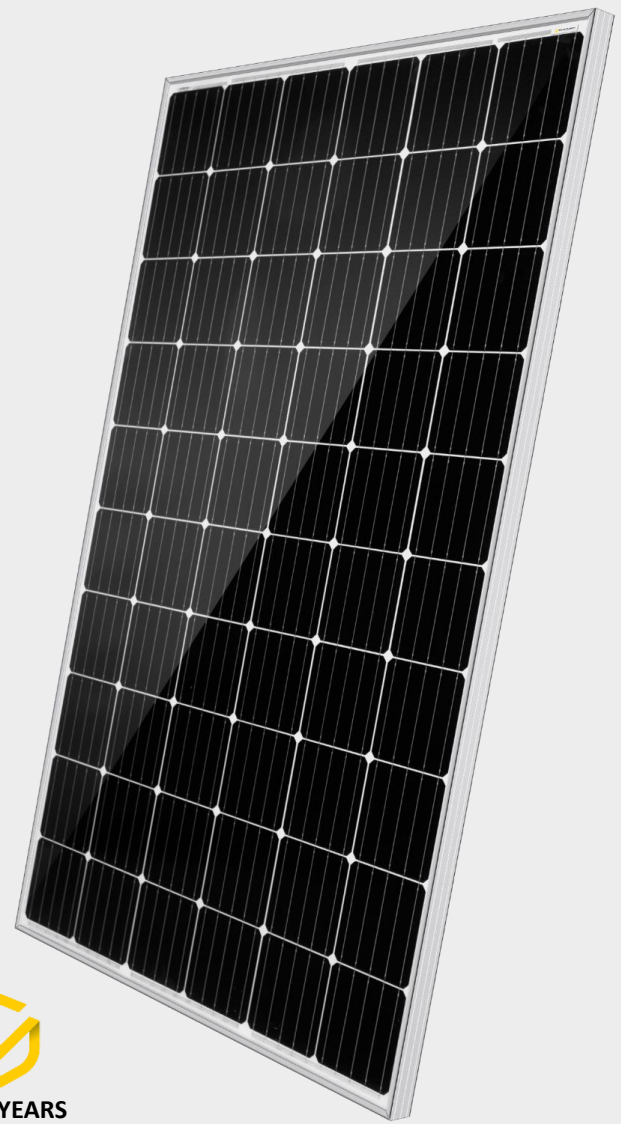
FOR ALL ENVIRONMENTAL CONDITIONS

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



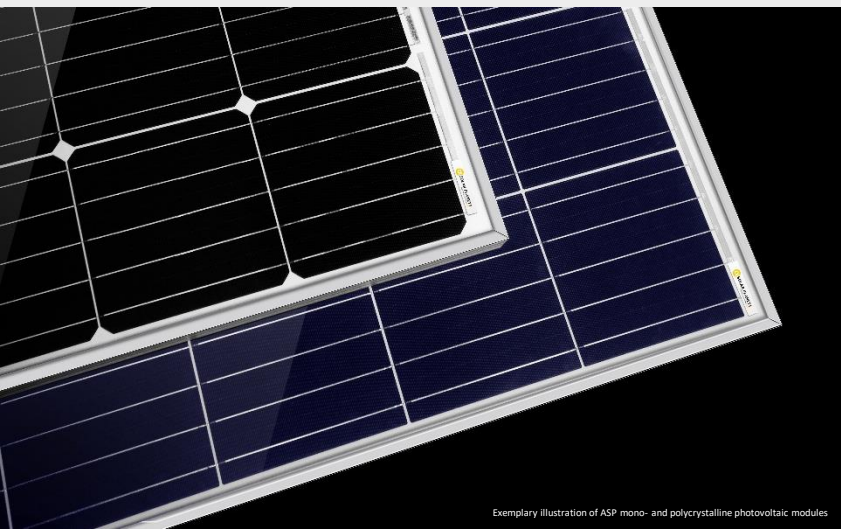
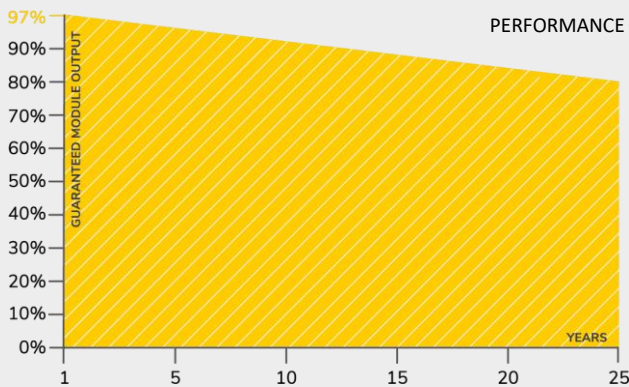
12 YEARS
PRODUCT WARRANTY

Exemplary illustration of ASP M5-60

OUR PERFORMANCE GUARANTEE



25 YEARS
PERFORMANCE GUARANTEE



Exemplary illustration of ASP mono- and polycrystalline photovoltaic modules

CERTIFICATES



IEC 61215
IEC 61730
PERIODICAL
INCEPTION



PID RESISTANT
SALT MIST RESISTANT
SAND RESISTANT
CORROSIVE GAS (NH₃)



ALPHA SOLAR PLANET
Enjoy the quality difference

MonoPower Micro Module

ASP M5-48 Series 120W-145W

TECHNICAL DATA

ASP120M5-48 ASP125M5-48 ASP130M5-48 ASP135M5-48 ASP140M5-48 ASP145M5-48

Parameter	Unit	ASP120M5-48	ASP125M5-48	ASP130M5-48	ASP135M5-48	ASP140M5-48	ASP145M5-48
Maximum power	P _{max} (Wp)	120	125	130	135	140	145
Maximum power voltage	V _{mp} (V)	24.99	25.15	25.31	25.47	25.63	25.79
Maximum power current	I _{mp} (A)	4.80	4.97	5.14	5.30	5.46	5.62
Open-circuit voltage	V _{oc} (V)	29.93	30.09	30.25	30.41	30.58	30.74
Short-circuit current	I _{sc} (A)	5.19	5.32	5.44	5.57	5.69	5.81
Module efficiency	%	13.88	14.46	15.04	15.61	16.19	16.77
Power tolerance	P _{max} (W)	0 / +5					
Maximum system voltage DC	V	1000					
Operating temperature	°C	40 to +85					
Temperature coefficients of P _{max}	%/°C	-0.36					
Temperature coefficients of V _{oc}	%/°C	-0.36					
Temperature coefficients of I _{sc}	%/°C	0.06					
Nominal operating cell temp. (NOCT)	°C	45 ± 2					

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

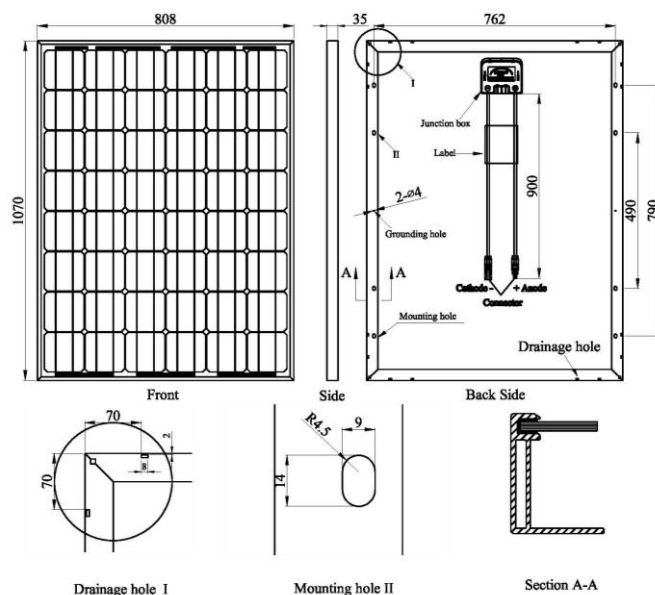
MATERIAL CHARACTERISTICS

Cell type	Monocrystalline 125 x 125 mm
No. of cells	48 (6 x 8)
Dimensions	1070 x 808 x 35 mm
Weight	7.6 kg
Junction box	IP 67 rated
Output cable	4.0 mm ² , 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 ²
Mechanical load	5400 Pa / 550 kg / m ²

PACKING INFORMATION

Packing configuration	70 pcs / double pallet
Loading capacity	1400 pcs / 40 HQ
Size / pallet	1120 x 1135 x 2325 mm
Weight	805 kg / pallet

DRAWINGS



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