München Energieprodukte











Ü Series Polycrystalline Module MSPxxxAS -36

ABOUT MÜNCHEN ENERGIEPRODUKTE

- •München Energieprodukte is one of the most innovation, reliability, quality and value focused companies in the entire sector thanks to its focus on solar modules and technology ranging from roof systems to full-scale power plants. With markets in Germany, Japan, China, Australia and the Americas, München Energieprodukte is truly a global provider in the field of solar power.
- •Whether you're picking solar modules for your residential / commercial roof system or power plant, you know you can rely on the München Energieprodukte brand. Customers who choose München Energieprodukte know we will deliver maximum performance with the highest quality product at the best value.

PERFORMANCE

- •Tight positive power tolerance of -0%/W to +5%/W ensures you receive modules at or above nameplate power and contributes to minimizing module mismatch losses leading to improved system yield.
- •Polycrystalline silicon solar cells with low-iron tempered high transmission and textured glass deliver a module efficiency of up to 20.0%, maximizing the kWh output of your system per unit area.

QUALITY & RELIABILITY

- •Tested for harsh environments (salt mist and ammonia corrosion testing: IEC 61701, DIN 50916:1985 T2)
- •Modules independently tested to ensure conformance with certification and regulatory standards.

WARRANTIES

- •12 year limited product warranty
- •25 year limited power output warranty Please refer to our Warranty Terms and Conditions















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Ü Series

Polycrystalline Module MSPxxxAS -36

ELECTRICAL PERFORMANCE											
Electrical parameters at Standard Test Conditions (STC)											
Module Type	MSPxxxAS-36(xxx=Pmax)										
Power output	Pmax	w	305	310	315	320	325	330	335	340	345
Power output tolerances	ΔPmax	%	% +3								
Module efficiency	η _m	%	17.24	17.52	17.81	18.09	18.37	18.65	18.94	19.22	19.50
Voltage at Pmax	Vmpp	V	36.36	36.85	37.58	37.62	37.69	37.71	37.77	37.82	37.96
Current at Pmax	Impp	Α	8.39	8.41	8.38	8.51	8.62	8.83	8.91	8.99	9.09
Open circuit voltage	Voc	V	43.9	44.19	44.3	44.47	44.65	44.71	44.88	45.08	45.17
Short circuit current	Isc	Α	8.96	8.99	9.05	9.08	9.15	9.26	9.43	9.52	9.66

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 5% at 200W/m² according to EN 60904-1.

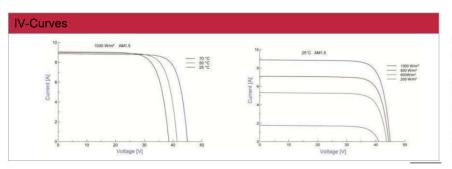
THERMAL CHARACTERISTICS					
Nominal operating cell temperature	NOCT	°C	45 +/-2		
Temperature coefficient of Pmax	γ	% / °C	-0.39		
Temperature coefficient of Voc	βVoc	% / °C	-0.29		
Temperature coefficient of Isc	αlsc	% / °C	+0.05		

NOCT:open-circuit module operation temperature at 800W/m2 irradiance,20°Cambient temperature,1m/s wind

OPERATING CONDITIONS		
Max. System Voltage	1000VDC	
Max. series fuse rating	15A	
Limiting reverse current	15A	
Operating temperature range	-40°C to 85°C	
Max.staticload,front(e.g.,snow and wind)	5400Pa	
Max. static load, back (e.g., wind)	2400Pa	
Max.hailstone impact(diameter/velocity)	25mm / 23m/s	

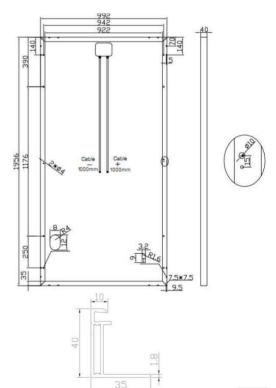
MECHANICAL CHARACTERISTICS				
Front Cover (material / thickness)	low-iron tempered glass / 3.2mm			
Cell (quantity)	72			
Encapsulant (material)	EVA			
Frame material	anodized aluminum alloy			
Junction box (protection degree)	≥ IP67 with bypass-diode			
Cable (length / cross sectional area)	1000mm / 4mm²			
Plug connector(type/protection degree)	MC4 / IP67			
Fire Safety Classification (IEC 61730)	Class C			

Specifications are subject to change without notice.



GENERAL CHARACTERISTIC		
Dimensions	1956mm / 992mm / 40mm	
Weight	22.5kg	

Unit: MM



Frame Section

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MAXIMALENERGIE

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