München Energieprodukte





Ü Series Polycrystalline Module MSPxxxAS -30

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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ELECTRICAL PERFORMANCE								
Electrical parameters at Standard Test Conditions (STC)								
Module Type	MSPxxxAS-30(xxx=Pmax)							
Power output	Pmax		260	265	270	275	280	285
Power output tolerances	ΔP_{max}	%	0 / +5					
Module efficiency	ηm	%	16.0	16.3	16.6	16.9	17.2	17.5
Voltage at Pmax	Vmpp	V	30.70	30.94	31.12	31.5	31.67	31.84
Current at Pmax	Impp	А	8.47	8.56	8.68	8.73	8.84	8.95
Open circuit voltage	Voc	V	38.18	38.89	38.61	38.69	39.07	39.38
Short circuit current	lsc	А	8.91	8.98	9.07	9.16	9.23	9.31

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 NOCT °C Nominal operating cell temperature 45 +/-2 Temperature coefficient of Pmax % / °C -0.442 γ Temperature coefficient of Voc βVoc % / °C -0.352 Temperature coefficient of Isc % / °C +0.088 α lsc

GENERAL CHARACTERISTIC			
Dimensions	1640mm / 992mm / 40mm		
Weight	18.6kg		

Unit: MM

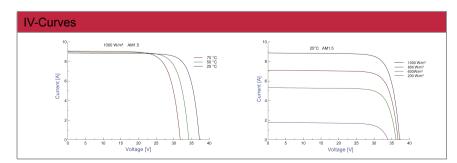
NOCT:open-circuit module operation temperature at 800W/m² irradiance,20°Cambient temperature,1m/s wind

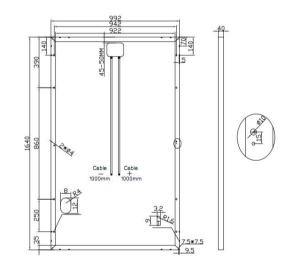
OPERATING CONDITIONS				
Max. System Voltage	1000VDC			
Max. series fuse rating	15A			
Limiting reverse current	15A			
Operating temperature range	-40°C to 85°C			
Max.staticload,front(e.g.,snow and wind)	5400Pa			
Max. static load, back (e.g., wind)	2400Pa			
Max.hailstone impact(diameter/velocity)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

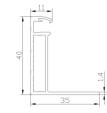
MECHANICAL CHARACTERISTICS

Front Cover (material / thickness)	low-iron tempered glass / 3.2mm		
Cell (quantity)	60		
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.







Frame Section

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MAXIMALENERGIE © München Energieprodukte GmbH Address: Stethaimerstr.32-34 84034 Landshut, Bayern Phone: 0049-(0) 8943712986 Email: Sales@muenchen-energieprodukte.de Web: www.muenchen-Energieprodukte.de