







ANTI REFLECTIVE GLASS

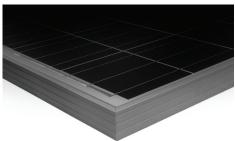


BETTER EFFICIENCY



ULTIMATE PROTECTION









AEON SERIES Multicrystalline MSPxxxSC-36

LASER CUT TECHNOLOGY

By reducing the area of each wafer before cell production, with precision revolutionizing laser cut processing, then connecting cells in a parallel formation, the amount of electrical current carried by each busbar is reduced by 20%. This results in the decrease of electrical resistance within the busbars and an increase in overall efficiency of up to 2.5%.

3 BUSBAR CELL

Through an industry-leading innovation of integrating 3 busbars into each cell, internal electrical resistance is reduced, boosting cell output up to 3%*. This is possible because the distances between the busbars are shorter and less current flows through each smaller electrode where resistance is the highest.

ANTI REFLECTIVE GLASS

An anti-reflective coating has been added to the glass of our modules. It improves the light transmittance of the glass by reducing the amount of reflection on the surface. This improvement has led to a module output increase of 2%. Furthermore, München Solar modules use a non-porous type of anti-reflective coating, which is more resistant to the adhesion of dust than porous types.

PID (POTENTIAL INDUCED DEGRADATION) FREE

Our AEON Series PID Free modules are tested under the condition of 60°C/ 85% RH, setting a new standard for Quality and Performance of PV modules. Our modules can be used in all areas, especially ideal for installations in regions of high temperature and high humidity. Our 60°C/ 85% RH certified PID Free module ensures highest reliability under extreme conditions.

FRAME FIXATION

Traditionally this process has been achieved through the use of silicon sealant. All AEON series modules utilize industry leading high-end adhesive tapes, for a tighter seal to guarantee higher reliability when bonding frames to solar laminates.

















^{*}Approximate improvement compared to a standard 2 busbar cell.

AEON SERIES

Multicrystalline MSPxxxSC-36



ELECTRICAL PERFORMANCE							
Electrical parameters at Standard Test Conditions (STC)							
Module Type	MSPxxxSC-36 (xxx=P _{max})						
Power output	P _{max}		235	240	245	250	255
Power output tolerances	ΔP _{max}	%	0/+3				
Module efficiency	η _m	%	14.47	14.78	15.09	15.40	15.71
Voltage at Pmax	V _{mpp}	V	37.22	37.66	37.8	37.81	38.18
Current at Pmax	Impp	А	6.31	6.37	6.48	6.61	6.68
Open circuit voltage	V _{oc}	V	44.50	44.93	45.07	45.40	45.55
Short circuit current	I _{SC}	А	6.76	6.82	6.94	7.07	7.15

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum

Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	°C	47 +/-2
Temperature coefficient of P _{max}	γ	% / °C	-0.45
Temperature coefficient of V _{OC}	βVoc	% / °C	-0.33
Temperature coefficient of I _{SC}	αISC	% / °C	+0.04
Temperature coefficient of V _{mpp}	βVmpp	% / °C	-0.35

NOCT: open-circuit module operation temperature at $800W/m^2$ irradiance, $20^{\circ}C$ ambient temperature, 1m/s wind speed. Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/-3%

OPERATING CONDITIONS	
Max. System Voltage	1000VDC
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. static load, 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)	Micro - structured solar glass / 3.2mm		
Cell (quanity / material / dimensions)	72 / multicrystalline silicon / 156 x 130mm		
Encapsulant (material)	EVA		
Frame material	anodized aluminum alloy		
Junction box (protection degree)	≥ IP67 (3 bypass-diodes)		
Cable (length / cross sectional area)	900mm / 4mm²		
Plug connector (type / protection degree)	MC4 / IP67		
Fire Safety Classification (IEC 61730)	Class C		

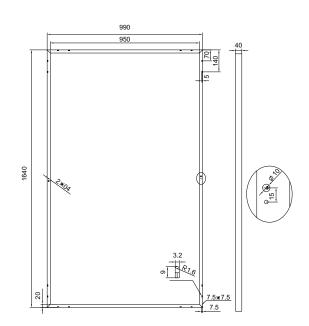
All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly.

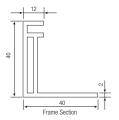
All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

PARTNERS			

GENERAL CHARACTERISTIC		
Dimensions	1640mm / 990mm / 40mm	
Weight	18.6kg	

Unit: mm







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