0322.1549 High performance module M400-HC120-b RC GG NICER X

Bifacial glass-glass module / Totally Black / 400 Wp / HiR RearCon Half-cut / Black NICER X frame

HiR RearCon cell technology

Totally Black for highest aesthetic requirements

Additional yields through bifaciality



Best performance stability and maximum efficiency



Very high durability due to glass-glass technology



Full traceability of all raw materials



Swiss development and warranty

Bifacial gain ¹		
Low reflecting surface	e.g. grass, brick	5 - 15 %
Well reflecting surface	e.g. sand, bright gravel or paint	15 - 25 %
Highly reflecting surface	e.g. ice, snow	25 - 35 %



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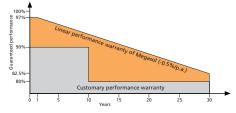
Electrical data STC			With bif	acial gain ¹	
Nominal power (Pmpp)	400 W	р	5%	420 Wp	
Nominal voltage (Umpp)	36.3 V		10 %	440 Wp	
Nominal current (Impp)	11.03 /	Д	15 %	460 Wp	
Open circuit voltage (Uoc)	42.3 V		20 %	480 Wp	
Short circuit current (lsc)	11.56	Д	30 %	520 Wp	
Cell efficiency	25.0 %		albedo of	¹ Depending on installation situation albedo of the substrate and	
Module efficiency	21.7 %		external f	actors.	
Power sorting	-0/+5 %				
STC (Standard Test Conditions): irradian Measuring tolerances ±3 % (Pmpp); ±1				1 1.5	
Electrical data at partial load	b	800 W	/m²		
Nominal power (Pmpp)	ominal power (Pmpp)		324 Wp		
Nominal voltage (Umpp)		36.0 V			
Nominal current (Impp)		9.02 A			
Open circuit voltage (Uoc)		41.9 V			
Short circuit current (lsc)		9.46 A			
Measuring tolerances ±5 % (Pmpp); ±10	0 % (Umpp, I	lmpp)			
Thermal properties					
Nominal operating cell temperature (NOCT)		42 ±2 °C			
Temperature coefficient Uoc		-0.268 %/°C			
Temperature coefficient lsc		+0.042 %/°C			
Temperature coefficient Pmpp		-0.300 %/°C			
Operating conditions					
Temperature range		-40 +85 °C			
Max. system voltage		1500 V			
Max. string fuse		25 A			
Max. snow loads *		Up to 6'000 N/m ²			
Hail resistance		ø 30 mm at 23 m/s Hail protection class 3			
Application class (acc. to IEC/EN 61730)		A			
Fire protection		glass. T non-co	he component is	nade of heat-resistant considered to be al as defined by the s.	
Protection class		П			
Standards		IEC/EN 61215, 61730			
Salt spray test		IEC/EN 61701 I+II			
Ammonium corrosion test		IEC/E	N 62716		

* Max. possible forces acting on the module. The maximum values in mounted condition depend on the substructure as well as the installation situation. If the requirements are higher than IEC/EN 61215, a project-specific dimensioning of the mounting system is necessary. General data

Laminate structure	Glass-glass		
Cell technology	Megasol Mono HiR RearCon		
Cell format	M6 Half-cut 166x83mm		
Number of cells (matrix)	120 (6x 20)		
Design	Totally Black Black cell spacing, black cross connectors, hidden busbars (RearCon)		
Frame	NICER X Aluminium, anodized black		
Front side	2.0 mm TVG High-transmission, nano-finished/antireflective surface		
Encapsulation material	Special EVA (UV+/IR+) with lowest yellowness index		
Back side	2.0 mm TVG		
Junction box	Split Box, IP67		
Cable cross section	4 mm ²		
Connectors	Original Stäubli MC4-Evo 2		
Dimensions (LxWxH) ±3.0 mm	1082x1734x50 mm		
Grid dimensions (LxW)	1060x1740 mm		
Weight	24 kg		

Product warranty 15 years

FIGUUCE Wallally	i J years
Linear performance warranty	30 years



Relative efficiency level in relation to the minimal output (%). At least 97% of the minimum output during the first year. Afterwards, max. 0.5% degradation per annum. At least 92.5% of the minimum output after 10 years. At least 87.5% of the minimum output after 20 years. At least 82.5% of the minimum output after 30 years. All teast within the measuring tolerances. Warranties according to the respective latest Megasol Warranty Conditions which can be found on www.megasol.ch/warranty.



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Megasol partner

Note: The instructions in the installation manual must be strictly complied with. Further information about approved utilization of products can be found in the installation manual or can be requested from the technical service.

Subject to errors and technical modifications. Data sheet in accordance with DIN EN 50380. © Megasol Energy Ltd | Version: 01/2023