0322.0821 High performance module P280-60-w U40

Glass-film / polycrystalline / 280 Wp / white / 40 mm U-frame

5-busbar technology

High performance stability and maximum efficiency

Nano-finished solar glass with antireflective surface

Optimized low-light performance

Si Based on 100 % silicon

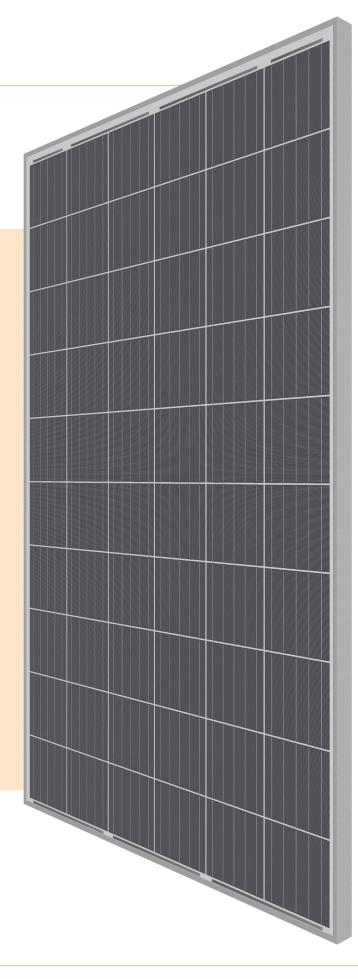


Full traceability of all raw materials



Swiss development and warranty

Record efficiency levels thanks to ion implanters and selective emitter technology. It is owed to state-of-theart spectral optimization that Megasol modules perform up to 15 % better than customary modules under cloudy conditions and during dusk or dawn.





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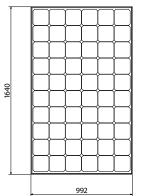
Art. 0322.0821

Electrical data STC

280 Wp
32.1 V
8.73 A
38.9 V
9.41 A
19.40 %
17.24 %
-0/+5 %
, cell temperature 25°C, AM 1.5 , Impp, Uoc, Isc) 800 W/m²
212 Wp
29.7 V
7.11 A
36.5 V
7.33 A
Impp)
45 ± 2 °C
-0.26 %/°C
+0.031 %/°C
-0.37 %/°C
-40 +85 °C
1000 V
20 A
16 A
Up to 5'400 N/m ²
ø 30 mm at 23 m/s Hail protection class 3
A
Top layer is made of heat-resistant glass. The component is considered to be non- combustible material as defined by the Cantonal Fire Insurances.
11
IEC/EN 61215, 61730

* 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.

Technical drawing



General data

Laminate structure	Glass-foil
Cell type	Polycrystalline, 5 busbars
Cell size	156x156 mm
Number of cells (matrix)	60 (6x 10)
Colour between cells	White
Frame	U-frame 40 mm Aluminium, anodized natural
Front side	3.2 mm solar glass High-transmission, tempered/toughened, nano-finished/antireflective surface
Encapsulation material	EVA with lowest yellowness index
Back side	Three-layer build-up (Polyester / PET / Tedlar) with lowest water vapour permeability
Junction box	3 bypass diodes, IP67
Cable cross section	4 mm²
Connectors	MC4 compatible, IP67
Dimensions (LxWxH) ±3.0 mm	1640x992x40 mm
Modular dimensions (LxW)	Depending on the installation situation
Weight	18.5 kg
Quality and warranty	
Quality characteristics	PID-free (no potential induced degradation) Yield-optimized low-light performance Full traceability of all raw materials
Product warranty	10 years
Linear performance warranty	25 years



Relative efficiency level in relation to the minimal output (%). At least 97% of the minimum output during the first year. Afterwards, max. 0.6% degradation per annum. At least 91.6% of the minimum output after 10 years. At least 82.6% of the minimum output after 25 years. All data 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: 03/2019