

MECHANICAL SPECIFICATION

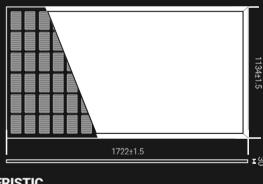
waranty

"The most comprehensive warranty in the entire solar industry."

warranty

Dimension	1722 × 1134 × 30mm ± 1.5 mm	
Weight	23 kg	
Frame	Anodized aluminium alloy	
Cell Encapsulation	POE	
Front and Rear glass	2.0 mm x 2 pcs, DLAR glass coating technology	
Back sheet	Normal tempered glass	
Cells	6*20 pieces, 166*83mm	
Junction box	IP68 rated	
Output cables	4.0 mm2 , 1200mm	
Connection technology	Stäubli Electrical MC4-connectors	

warranty



ELECTRICAL CHARACTERISTIC

	Front	Extra Power (depends on the % of reflected light to the back)		
Light Source (%)	410	10	20	30
Peak Power (Pmax) (W)	410	432	464	496
MPP Voltage (Vmp) (V)	31.6V	31.2	31.3	31.3
MPP Current (Imp) (A)	13.0A	13.8	14.8	15.8
Open Circuit Voltage (Voc) (V)	37.5V	37.1	37.2	37.2
Short Circuit Current (Isc) (A)	13.9A	14.5	15.8	16.9
Module Efficiency (%)	21.0%	23.7	25.5	27.2
Operating Module Temperature		-40) °C to +85 °C	
Maximum System Voltage		150	00 V DC (IEC)	
Maximum Series Fuse Rating			20 A	
Power Tolerance			0/+5W	
STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%				

TEMPERATURE CHARACTERISTICS

Rated cell operating tempreture	45±2°C	Temperature Coefficient (Pmax)	+0.04%/°C
Temperature Coefficient (Isc)	-0.31%/°C	Temperature Coefficient (Voc)	-0.27%/°C

QUALIFICATIONS AND CERTIFICATES













PACKAGING INFORMATION 40'HC

Pieces per pallet	36
Pallets per container	26
Pieces per container	936

Certificates available upon special requests. Additional charges may apply.

Both the Belinus solar cells and solar modules are made by suppliers in the Bloomberg Tier 1 List.



Belinus All-In-One Warranty	vs	Solar Panel Warranty
35 years	Service Warranty	8
②	Shipping - new part	8
	Shipping - old part	8
②	Intallation	8
35 years	Product Warranty	12 years
	Power Warranty	
98%	Start point	97%
0.34%	Yearly decline	0.7%
88%	End point (30 years)	80%
86%	End point (35 years)	8

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