

POWER Module

Glas / Glas - Bi-Facial - Transparent - Module

POW18N-108 430-440W

TOPCon - Bifacial Module > 22.5 % Efficiency

Safety anti-reflection glass with 2x 2,0mm glass

Module withstand snow loads (5.400 Pa) and extreme wind (2.400 Pa)

25 YEARS Product warranty 30 YEARS linear performance guarantee



Enhanced Power Output

Increased Efficiency: The use of high-quality half-cell technology improves module conversion efficiency, leading to greater power output.



Bifacial Effect Power Gain

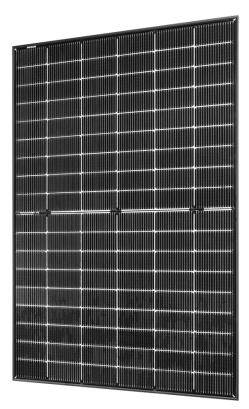
Bifacial Effect: The ability to capture sunlight from both sides of the panel further boosts energy production.

30 Year Linear Performance Guarantee



30 Years performance guarantee with a max. annual reduction of 0.4% from the 2nd year • 99% in the 1st year

- · 92% at the end of the 20th year
- \cdot 87% at the end of the 30th year





Superior Temperature Performance

Improved Output: Lower operating temperatures enhance overall performance, allowing the module to generate more power.



Long-Term Reliability

Durable Construction: Modules are constructed with reinforced glass to withstand harsh weather conditions and reduce the risk of cell damage, ensuring greater longevity.

Certificates & Test Reports



IEC61215, IEC61730 ISO9001, ISO 14001, ISO 45001 Ammonia, Sand and Salt Resistance HW4 Hail Impact Protection Register Carbon Footprint & WEEE Recycling Partner

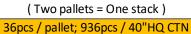


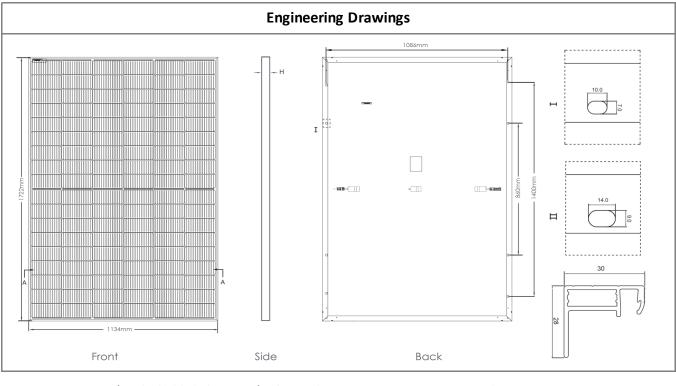
STC	NOCT	STC	NOCT
POW18N-108 430		POW18N-108 440	
430	326	440	334
39,74	37,36	40,19	37,78
13,61	11,27	13,77	11,42
32,82	30,53	33,23	30,91
13,12	10,68	13,25	10,81
	POW18N 430 39,74 13,61 32,82	POW18N-108 430 430 326 39,74 37,36 13,61 11,27 32,82 30,53	POW18N-108 430 POW18N 430 326 440 39,74 37,36 40,19 13,61 11,27 13,77 32,82 30,53 33,23

STC: Irradiance 1000 W/m2 - Spectra 1.5 - Ambient Temperature 25 °C // NOCT: Irradiance 800 W/m2 - Spectra 1.5 - Ambient Temperature 20 °C, Wind at 1 m/s

Module Efficiency STC in %	22,0	22,5	
Operating Temperature in °C	-40 ~ +85		
Maximum system voltage in V (DC)	1500		
Maximum series fuse rating in A	30		
Power tolerance in Wp	0~+5		
Temperature coefficients of Pmax in % / °C	-0,30		
Temperature coefficients of Voc in % / °C	-0,25		
Temperature coefficients of Isc in % / °C	+0,045		
Nominal Operating Cell Temperature (NOCT) in °C	45 +/- 2		
Transparency in %	< 5%		
Mechanical Characteristics			
Dimensions in mm	1722 x 1134 x 30		
Weight in kg	24,5		
Front / Back Glass	2 x 2,0 mm Anti-Reflection Coating		
	M10 N-Type Mono-Crystalline (180mm)		
Cell Type (Half Cut)			
No. Of cells	10	08	
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No. Of cells	Anodized Alu	08	
No. Of cells Frame	Anodized Alu 12	08 Iminium Alloy	

Packaging Configuration





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