



Zhu Series TOPCon Mono Single Glass Module

420-440W 108



Product Features



High yield

Effectively reduce system BOS costs achieve lower electricity consumption costs, and improve project profitability.



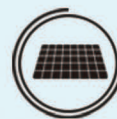
Low risk of hot spots

Adopting new generation cell technology and optimizing circuit design to achieve better temperature coefficient and thermal resistance.



High energy density

Adopting large-sized and highly efficient cells, applying efficiency enhancing packaging materials and half cut technology to improve power output.



Classic structural design

Single glass structure and layout design that have been validated by long-term market applications.

Product System And Certification

- ISO 9001
- ISO 14001
- ISO 45001
- IEC 61215
- IEC 61730



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Leading Quality Standards

15 year

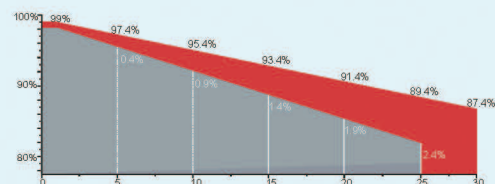
Quality assurance

30 year

Power guarantee

-0.40%

Annual decay



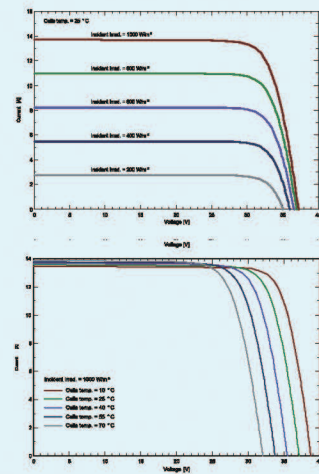
Mechanical Parameters

Cell	N-type TOPCon (108)
Dimensions	1722±2mm×1134±2mm×30±1mm
Weight	21kg±3%
Glass	3.2mm AR coating tempered glass,low iron
Frame	Anodized aluminium alloy
Junction box	IP68, 3 diodes
Wireway	4mm ² , 350mm (+) /350mm (-) or customized length
Packaging	36 pieces/pallet
Loading quantity	20GP: 216 pieces , 40GP: 432 pieces , 40HQ: 936pieces, 13 meter truck: 936pieces, 17.5 meter truck: 1152pieces

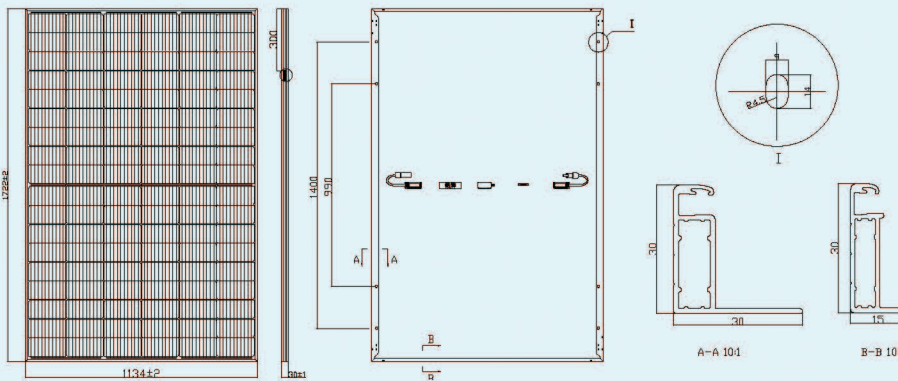
Operation Parameters

Maxsystem voltage	1500V DC
Operating Temperature	-40°C ~+85°C
Fuse's rated current	25A
Maxload front	5400Pa
Maxload back	2400Pa
Normal Operating Cell Temperature	45±2°C
Safety level	Class II
Fire performance	UL Type I

I-V Curve



Drawing



Electrical Parameters

Module	JKL108-B-420NH		JKL108-B-425NH		JKL108-B-430NH		JKL108-B-435NH		JKL108-B-440NH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power [W]	420	316	425	320	430	324	435	328	440	332
Maximum working voltage [V]	31.56	29.35	31.74	29.53	31.93	29.67	32.13	29.84	32.35	30.99
Maximum working current [A]	13.31	10.77	13.39	10.84	13.47	10.92	13.54	10.99	13.62	11.06
Open circuit voltage [V]	38.19	36.22	38.38	36.41	38.57	36.58	38.75	36.78	38.96	39.01
Short circuit current [A]	14.04	11.38	14.12	11.44	14.21	11.51	14.27	11.58	14.35	11.65
EFF [%]	21.52%		21.83%		22.02%		22.31%		22.53%	
Power tolerance [W]	0 ~+5W									
Short circuit current temperature coefficient	+0.046%/°C									
Open circuit voltage temperature coefficient	-0.250%/°C									
Maximum power temperature coefficient	-0.300%/°C									
STC	Irradiance 1000W/m ² , Cell temperature 25° C, Spectral AM1.5									
NOCT	Irradiance 800W/m ² , Ambient temperature 20° C , Spectrum AM1.5, Wind speed 1m/s									

Note: The electrical performance in this product catalog do not only refer to a single module, or are they promised in the contract. The electrical parameters are only used for comparison between different module types.