LU'AN SOLAR

Zhu Series
TOPCon Mono
Bifacial Glass Module

410-425W **108**

Product Features

Low risk of hot spots

Adopting new generation cell technology and optimizing circuit design to achieve better temperature coeficient 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.

Lower electrical losses

The multi-busbar design effectively reduces the impact of hidden cracks and broken and the half cut cell structure effectively reduces the impact of shadow occlusion.

Double sided power generation

The gain of double-sided power generation increases with the back light exposure,reaching up to 25% significantly reducing LCOE.

Product System And Certification

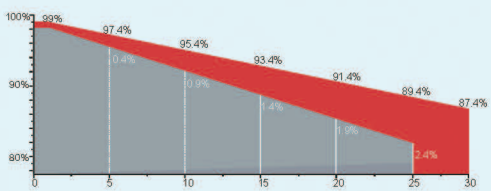
- ISO 9001
- ISO 14001
- ISO 45001
- IEC 61215
- IEC 61730

Leading Quality Standards

15 year Quality assurance

30 year Power guarantee

-0.40 % Annual decay



Add.: Changzhi, Shanxi, China
Tel: +86 355 5916888
Email:info@luansolar.com
https:www.luansolar.com

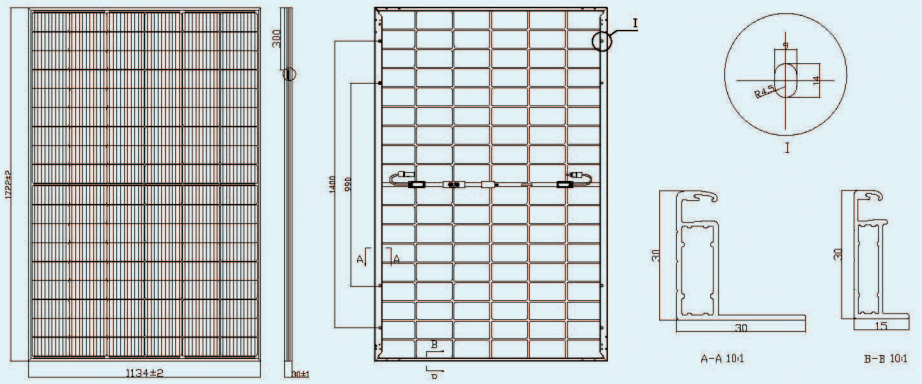
Mechanical Parameters

Cell	N-type TOPCon（108）
Dimensions	1722±2mm×1134±2mm×30±1mm
Weight	24kg±3%
Glass	2.0mm AR coating heatstrengthened 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

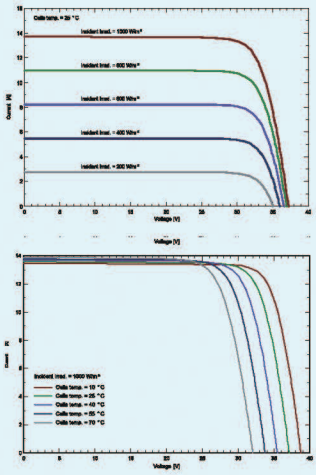
Operation Parameters

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

Drawing



I-V Curve



Electrical Parameters

Module	JKL108-B-420NB			JKL108-B-425NB			JKL108-B-430NB			JKL108-B-435NB			JKL108-B-440NB		
STC/NOCT	(FS) STC	(FS) NOCT	(RS) STC	(FS) STC	(FS) NOCT	(RS) STC	(FS) STC	(FS) NOCT	(RS) STC	(FS) STC	(FS) NOCT	(RS) STC	(FS) STC	(FS) NOCT	(RS) STC
Maximum power [W]	420	316	336	425	320	340	430	324	344	435	328	348	440	332	352
Maximum working voltage [V]	31.91	29.99	31.88	32.11	30.21	32.08	32.31	30.41	32.28	32.52	30.62	32.48	32.75	30.83	32.65
Maximum working current [A]	13.27	10.71	10.54	13.35	10.79	10.61	13.32	10.66	10.65	13.39	10.71	10.72	13.46	10.78	10.79
Open circuit voltage [V]	38.51	36.58	38.48	38.71	36.77	38.68	38.91	36.96	38.88	39.11	37.15	39.08	39.32	39.33	39.29
Short circuit current [A]	13.83	11.06	11.01	13.91	11.15	11.09	13.99	11.19	11.14	14.07	11.26	11.21	14.15	11.31	11.26
EFF [%]	21.52%			21.83%			22.02%			22.31%			22.53%		
Power tolerance [W]	0 ~+5W														
Short circuit current temperature coefficient	+0.046%/℃														
Open circuit voltage temperature coefficient	-0.250%/℃														
Maximum power temperature coefficient	-0.300%/℃														
STC	Irradiance 1000W/m^2, Cell temperature 25° C,Spectral AM1.5														
NOCT	Irradiance 800W/m^2, Ambient temperature 20℃ , 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.