LU'AN SOLAR

Ying Series
PERC Mono
Bifacial Glass Module

535-550W **144**

Product Features

Double sided power generation

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

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.

Low attenuation

The first year attenuation is less than2.0% with a linear attenuation of 0.55% per year within 25 years

High Power

Applying multi-busbar half cut technology to improve energy density and bring higher output power.

Product System And Certification

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

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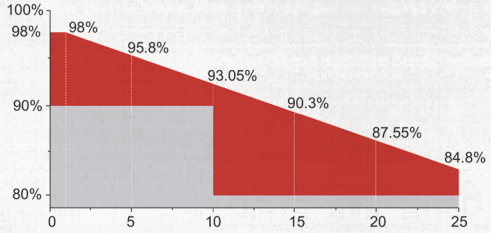
Leading Quality Standards

15 year
Quality assurance

30 year
Power guarantee

-0.55 %
Annual decay



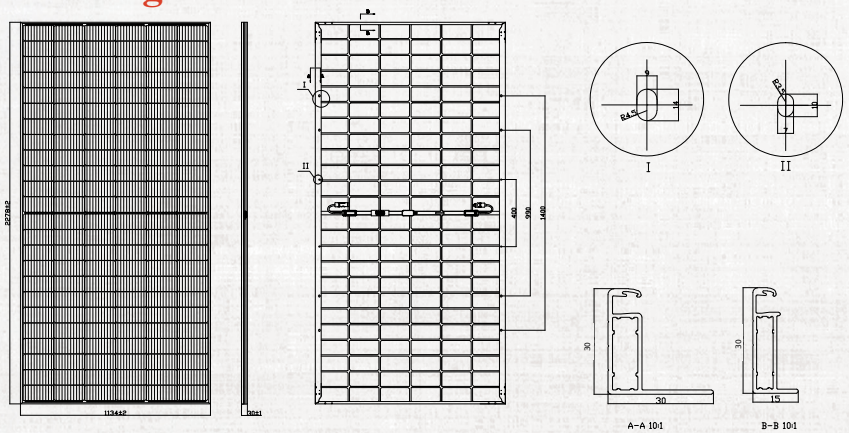
Mechanical Parameters

Cell	P-type PERC（144）
Dimensions	2278±2mm×1134±2mm×30±1mm
Weight	32kg±3%
Glass	2.0mm AR coating heatstrenthened glass,low iron
Frame	Anodized aluminium alloy
Junction box	IP68,3 diodes
Wireway	4mm^2，350mm（+）/350mm（-）or customized length
Packaging	36pieces/pallet
Loading quantity	20GP：180pieces，40GP：360pieces，40HQ：720pieces，13 meter truck：720pieces，17.5 meter truck：864pieces

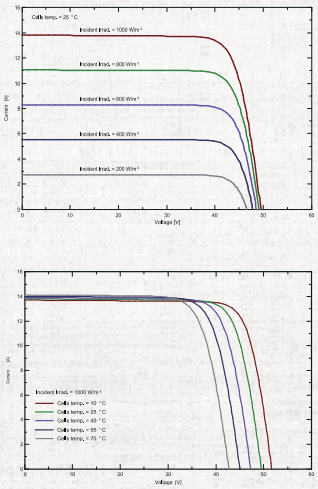
Operation Parameters

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 ll
Fire performance	UL Type l

Drawing



I-V Curve



Electrical Parameters

Module	JKL144-B-535MB			JKL144-B-540MB			JKL144-B-545MB			JKL144-B-550MB		
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
Maximum power [W]	535	404	375	540	408	378	545	411	382	550	415	385
Maximum working voltage [V]	41.57	38.41	41.35	41.75	38.61	41.61	41.87	38.71	41.86	42.05	38.9	42.11
Maximum working current [A]	12.87	10.53	9.17	12.94	10.58	9.09	13.02	10.63	9.13	13.08	10.67	9.15
Open circuit voltage [V]	49.39	46.41	49.38	49.54	46.51	49.48	46.69	46.71	49.58	49.88	46.9	49.68
Short circuit current [A]	13.83	11.08	9.66	13.89	11.13	9.74	13.96	11.18	9.81	14.01	11.22	9.87
EFF [%]	20.71%			20.91%			21.11%			21.29%		
Power tolerance(W)	0 ~+5W											
Short circuit current temperature coefficient	+0.051%/°C											
Open circuit voltage temperature coefficient	-0.260%/°C											
Maximum power temperature coefficient	-0.340%/°C											
STC	Irradiance 1000W/m^2, Cell temperature 25° C,Spectral AM1.5											
NOCT	lrradiance 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.