

ZHU series

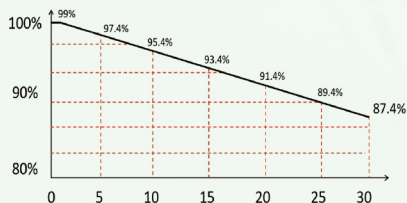
TOPCon Mono Bifacial Module



690-710W 132

Product Features

- High power
- Low attenuation
- Excellent low light performance
- Double side power generation



Leading Quality Standards

15 yr

Quality
assurance

30 yr

Power
guarantee

-0.4%

Annual
decay

Product System And Certification

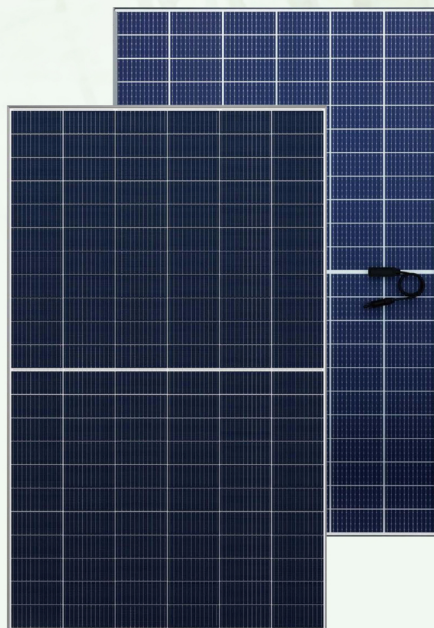
ISO 9001

ISO 14001

ISO 45001

IEC 61215

IEC 61730



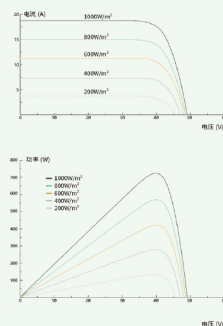
Exclusive distributor
contact us at:

gt@luumens.com
ml@luumens.com
www.luumens.com

Mechanical Parameters

Cell	N-type TOPCon (132)
Dimensions	2384±2mm×1303±2mm×33±1mm
Weight	39kg±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	33 pcs/pallet, 1335×1130×2520mm 1320kg/pallet
Loading quantity	20GP: 132pcs, 40HQ: 594pcs, 17.5m truck: 726pcs

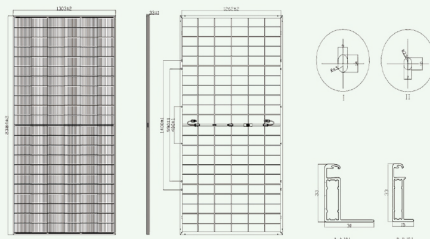
I-V Curve



Operation Parameters

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

Drawing



Electrical Parameters

Module	JKL132-C-690NB			JKL132-C-695NB			JKL132-C-700NB			JKL132-C-705NB			JKL132-C-710NB		
STC/NOCT	STC	NOCT	STC	STC	NOCT	STC	STC	NOCT	STC	STC	NOCT	STC	STC	NOCT	STC
	FS	FS	RS	FS	FS	RS	FS	FS	RS	FS	FS	RS	FS	FS	RS
Pmax [W]	690	518	552	695	522	556	700	526	560	705	530	564	710	534	568
Vmp [V]	38.55	36.04	38.53	38.71	36.19	38.68	38.85	36.34	38.83	39.00	36.49	38.98	39.15	36.64	39.13
Imp [A]	17.90	14.38	14.32	17.96	14.43	14.37	18.02	14.48	14.42	18.08	14.53	14.46	18.14	14.58	14.51
Voc [V]	46.96	43.75	46.54	47.11	43.91	46.69	47.26	44.05	46.84	47.41	44.20	46.99	47.56	44.35	47.14
Isc [A]	18.72	15.21	14.98	18.79	15.27	15.03	18.86	15.33	15.09	18.94	15.39	15.15	19.01	15.46	15.21
EFF [%]	22.21%			22.37%			22.53%			22.70%			22.86%		
Power tolerance [W]							0 ~+5W								
α_Isc							+0.046%/°C								
β_Voc							-0.250%/°C								
γ_Pmp							-0.300%/°C								
STC	Irradiance 1000W/m², Cell temperature 25°C,Spectral AM1.5														
NOCT	Irradiance 800W/m², 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.h