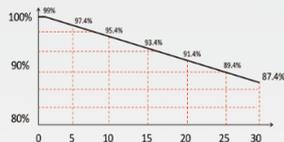


**Product Features**

- High power
- Low attenuation
- Excellent low light performance
- Visual total black



**Leading Quality Standards**

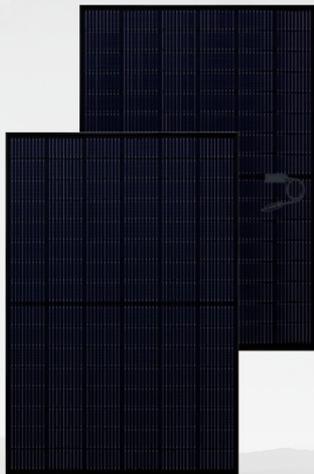
**15 yr**  
Quality assurance

**30 yr**  
Power guarantee

**-0.4%**  
Annual decay

**Product System And Certification**

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

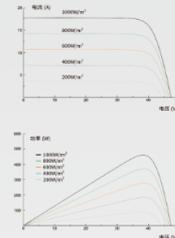


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**Mechatrical Parameters**

Cell	N-type TOPCon (96)
Dimensions	1762±2mm×1134±2mm×30±1mm
Weight	25kg±3%
Glass	2.0mm AR coating heatstrengthened glass,low iron
Frame	Black anodized aluminium alloy
Junction box	IP68, 3 diodes
Wireway	4mm <sup>2</sup> , 350mm (+) /350mm (-) or customized length
Packaging	36 pcs/pallet, 1800×1130×1270mm 940kg/pallet
Loading quantity	20GP: 216pcs, 40HQ: 936pcs, 17.5m truck: 1296pcs

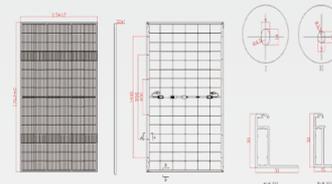
**I-V Curve**



**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 Parametersh**

Module	JKL96-D-445NB			JKL96-D-450NB			JKL96-D-455NB			JKL96-D-460NB			JKL96-D-465NB					
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]	445	335	356	450	339	360	455	343	364	460	347	368	465	351	372			
Vmp [V]	27.99	26.27	27.97	28.19	26.47	28.17	28.39	26.67	28.37	28.59	26.87	28.57	28.79	27.07	28.77			
Imp [A]	15.91	12.76	12.72	15.97	12.81	12.78	16.03	12.86	12.82	16.09	12.91	12.87	16.15	12.95	12.92			
Voc [V]	34.21	32.08	33.78	34.41	32.28	33.98	34.61	32.48	34.18	34.81	32.68	34.38	35.01	32.88	34.58			
Isc [A]	16.81	13.45	13.45	16.83	13.47	13.46	16.85	13.49	13.48	16.87	13.51	13.50	16.89	13.53	13.51			
EFF [%]	22.27%			22.52%			22.77%			23.02%			23.27%					
Power tolerance [W]							0 ~+5W											
α_isc							+0.046%/°C											
β_Voc							-0.250%/°C											
γ_Pmp							-0.300%/°C											
STC	Irradiance 1000W/m <sup>2</sup> , Cell temperature 25°C, Spectral AM1.5																	
NOCT	Irradiance 800W/m <sup>2</sup> , 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