

HIGH EFFICIENCY N-TOPCON

SOLAR MODULE

G12R cell | SMBB | Half-cut | Optional Bifacial

Optional: JNMN96-445~465 | JNMN132-610~630

JNBN96-440~460

JNBN132-605~625

PERFORMANCE MORE ADVANCED & RELIABILITY IMPROVED

- 630W+ modules is much higher than that of conventional modules, and the horizontal space utilization of modules in overseas shipping containers is maximized
- S Lower LID and anti-PID ensure long-term returns
- Double layers of anti-reflection glasses increase light transmittance and effectively improve nominal power
- Up to 80% bifacial factor gains 10%-30% extra generation in different scenarios.

♡ 12 year product warranty
♡ 30 year power generation warranty



a JINNENG HOLDING GROUP company

JINNENG CLEAN ENERGY TECHNOLOGY LTD / JINNENG PHOTOVOLTAIC TECHNOLOGY CO. LTD

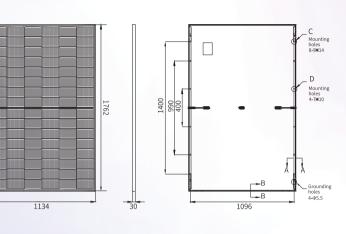
Monofacial Single Glass TOPCon Module

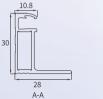
JNMN96-445~465

ENGINEERING DRAWING

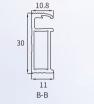
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ELECTRICAL PARAMETERS



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MECHANICAL PARAMETERS

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0	Cell (mm)	182*105 TOPCon
	Dimensions (L*W*H) (mm)	1762*1134*30
	Weight (kg)	21.4
	Cable Cross Section Size (mm ²	[•]) 4
	No. of Cells & Connections	96(6*16)
	No. of Diodes	3
	Frame	Anodized Aluminium Alloy
	Glass Thickness (mm)	3.2

QUALIFICATION

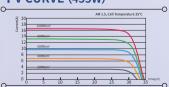
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Temperature Cycling Range (°C)	-40~+85	0
Max. Series Fuse Rating (A)	30	
Max.Wind Load/Max.Snow Load (Pa)	2400/5400	
Fire Rating	Class C	_
Junction Box & Connector Protection Grade	IP68	_
	Max. Series Fuse Rating (A) Max.Wind Load/Max.Snow Load (Pa) Fire Rating	Max. Series Fuse Rating (A)30Max.Wind Load/Max.Snow Load (Pa)2400/5400Fire RatingClass C

TEMPERATURE COEFFICIENTS

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0	Nominal Module Operating Temperature (NMOT)	43±2°C	\sim
	Temperature Coefficient Voltage (Voc)	-0.25 %/°C	
	Temperature Coefficient Current (Isc)	0.045 %/°C	
	Temperature Coefficient Power (Pm)	-0.29 %/°C	

Module Type	(1500V DC)	JNMN96-445	JNMN96-450	JNMN96-455	JNMN96-460	JNMN96-465
	Max. Power at STC (Pmpp/W)	445	450	455	460	465
	Output Tolerance (W)	0-+5	0-+5	0-+5	0-+5	0-+5
STC	Max. Power Voltage (Vmp/V)	28.50	28.69	28.88	29.07	29.26
AM1.5 1000W/m ²	Max. Power Current (Imp/A)	15.62	15.69	15.76	15.83	15.90
Cell Temperature 25°C	Open Circuit Voltage (Voc/V)	34.10	34.30	34.50	34.70	34.90
	Short Circuit Current (Isc/A)	16.33	16.40	16.47	16.54	16.61
	Module Efficiency (%)	22.27	22.52	22.77	23.02	23.27
	Max. Power (Pmpp/W)	339.5	343.3	347.1	350.9	354.7
NMOT	Max. Power Voltage (Vmp/V)	27.17	27.35	27.53	27.71	27.89
AM1.5 800W/m ²	Max. Power Current (Imp/A)	12.50	12.55	12.61	12.66	12.72
Ambient Temperature 20°C Wind Speed 1m/s	Open Circuit Voltage (Voc/V)	32.41	32.60	32.79	32.98	33.17
wind Speed Im/s	Short Circuit Current (Isc/A)	13.16	13.21	13.27	13.33	13.38

I-V CURVE (455W) 0



PACKING	CONFIGU	RATION
0		0

ACKING CONFIGU	JRATION	DEFAULT	OPTIONAL
Pieces Per Pallet	36	Connector Type 🛛 MC4 Compatible	□ MC4
Pallets Per Container	26	Cable Length 🗌 350mm/280mm	Customized
Pieces Per Container	936	Frame Color 🛛 Silver	Black

💿 🗆 CE 🖉 🍸 TUV: IEC/EN 61215, IEC/EN 61730

GB/T 19001-2016/ ISO 9001:2015 GB/T 24001-2016/ ISO 14001:2015 GB/T 45001-2020/ ISO 45001:2018 CNAS-CL01: ISO/IEC 17025:2017

12-year Product materials and workmanship quality warranty



CAUTOR: The electrical parameters in this product datasheet do not refer to only one module. Read safety and installation instructions before using the product. The contents of this specification are for reference only and are subject to change without notice. Jinergy reserves the right of final interpretation. JMM-2004/02-14.0T • 0204 JINNENG CLEAN ENREGY TECHNOLOGY ID. ALL REFITS RESERVED.

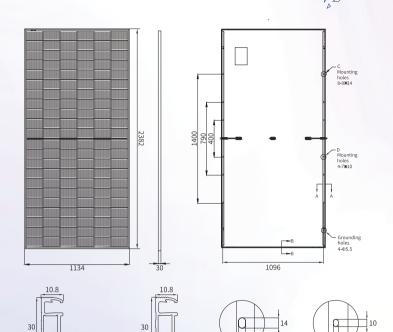
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*Measurement tolerance: Pmax: ±3%, Voc: ±3%; Isc: ±5%,

Monofacial Single Glass TOPCon Module

ENGINEERING DRAWING 0



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B-B

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JNMN132-610~630

MECHANICAL PARAMETERS

<u> </u>	Cell (mm)	182*105 TOPCon
	Dimensions (L*W*H) (mm)	2382*1134*30
	Weight (kg)	28.4
	Cable Cross Section Size (mm ²)	4
	No. of Cells & Connections	132(6*22)
	No. of Diodes	3
	Frame	Anodized Aluminium Alloy
_	Glass Thickness (mm)	3.2

QUALIFICATION

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0	Temperature Cycling Range (°C)	-40~+85	
	Max. Series Fuse Rating (A)	30	
	Max.Wind Load/Max.Snow Load (Pa)	2400/5400	
-	Fire Rating	Class C	_
_	Junction Box & Connector Protection Grade	IP68	_

TEMPERATURE COEFFICIENTS

0			-0
0	Nominal Module Operating Temperature (NMOT)	43±2°C	Ŭ
	Temperature Coefficient Voltage (Voc)	-0.25 %/°C	
	Temperature Coefficient Current (Isc)	0.045 %/°C	
	Temperature Coefficient Power (Pm)	-0.29 %/°C	~
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ELECTRICAL PARAMETERS

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A-A

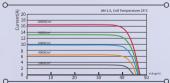
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Module Type (1	L500V DC)	JNMN132-610	JNMN132-615	JNMN132-620	JNMN132-625	JNMN132-630
	Max. Power at STC (Pmpp/W)	610	615	620	625	630
	Output Tolerance (W)	0-+5	0-+5	0-+5	0-+5	0-+5
STC	Max. Power Voltage (Vmp/V)	39.06	39.23	39.40	39.57	39.74
AM1.5	Max. Power Current (Imp/A)	15.62	15.68	15.74	15.80	15.86
1000W/m ² Cell Temperature 25°C	Open Circuit Voltage (Voc/V)	46.77	46.94	47.11	47.28	47.45
	Short Circuit Current (Isc/A)	16.33	16.39	16.45	16.51	16.57
	Module Efficiency (%)	22.58	22.77	22.95	23.14	23.32
	Max. Power (Pmpp/W)	465.4	469.2	473.0	476.8	480.6
NMOT	Max. Power Voltage (Vmp/V)	37.24	37.40	37.56	37.72	37.88
AM1.5 800W/m ²	Max. Power Current (Imp/A)	12.50	12.54	12.59	12.64	12.69
mbient Temperature 20°C Wind Speed 1m/s	Open Circuit Voltage (Voc/V)	44.45	44.61	44.77	44.93	45.10
wind speed Im/s	Short Circuit Current (Isc/A)	13.16	13.21	13.25	13.30	13.35
					*Measurement tolerance:	Pmax:±3%, Voc:±3%; Isc:

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I-V CURVE (620W)



PACKING CONFIGU	IRATION

NG CONFIGUR	KATION	0		DEFAULI	OPTIONAL	~
Per Pallet	36	0	Connector Type	MC4 Compatible	□ MC4	0
Per Container	20		Cable Length	□ 350mm/280mm	Customized	
Per Container	720	_	Frame Color	□ Silver	🗆 Black	-

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12-year Product materials and workmanship quality warranty

Pieces Pallets Pieces I

 TUV: IEC/EN 61215, IEC/EN 61730

 GB/T 19001-2016/ ISO 9001:2015

 GB/T 45001-2016/ ISO 14001:2015

 GB/T 45001-2020/ ISO 45001:2018

 CNAS-CL01: ISO/IEC 17025:2017

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