

Data form for critical components and material information

Applicant name and address..... :	NANTONG GAMKO NEW ENERGY CO.,LTD. 10 #-B-1F,NO. 606, KAIFA AVENUE DAGONG SCI&TECH INDUSTRIAL PARK HAIAN COUNTY 226006 NANTONG PEOPLE'S REPUBLIC OF CHINA
Manufacturer name and address . :	NANTONG GAMKO NEW ENERGY CO.,LTD. 10 #-B-1F,NO. 606, KAIFA AVENUE DAGONG SCI&TECH INDUSTRIAL PARK HAIAN COUNTY 226006 NANTONG PEOPLE'S REPUBLIC OF CHINA
Name and address of factory / factories..... :	Taoistic Solar Technology (changzhou) Co.,Ltd (112151) 269 Longxi Avenue,Zhulin Town,Jintan District 213000 Changzhou City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA Chongqing Taoistic Photoelectric Co., Ltd. (133808) Second Floor, Renmin University Comprehensive Building No. 198 Qinglong Road, Yunyang County 404500 Chongqing PEOPLE'S REPUBLIC OF CHINA Xuzhou Huicui New Energy Co., Ltd (133953) No. 3-118, Lingcheng Town Industrial Park, Suining County 221233 Xuzhou City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA
Project-No./Report-No. :	704062681001-00
Test item description	See the corresponding test report
Model/Type reference	Single Glass Module: 210x105mm 18BB TOPCON module a) 132 cells: CHN-xxx-NC-SG, xxx=665 to 730, in steps of 5 b) 120 cells: CHN-xxx-ND-SG, xxx=605 to 665, in steps of 5 c) 110 cells: CHN-xxx-NE-SG, xxx=555 to 610, in steps of 5 d) 100 cells: CHN-xxx-NG-SG, xxx=500 to 555, in steps of 5 e) 80 cells: CHN-xxx-NI-SG, xxx=400 to 445, in steps of 5 Double Glass Module: 210x105mm 18BB TOPCON module: f) 132 cells: CHN-xxx-NC-DG, xxx=665 to 750, in steps of 5 g) 120 cells:

Data form for critical components and material information

	CHN-xxx-ND-DG, xxx=605 to 680, in steps of 5 h) 110 cells: CHN-xxx-NE-DG, xxx=555 to 625, in steps of 5 i) 100 cells: CHN-xxx-NG-DG, xxx=500 to 570, in steps of 5 j) 80 cells: CHN-xxx-NI-DG, xxx=400 to 455, in steps of 5 210x105mm 18BB HJT module: k) 132 cells: CHN-xxx-HC-DG, xxx=665 to 730, in steps of 5 l) 120 cells: CHN-xxx-HD-DG, xxx=610 to 660, in steps of 5 m) 110 cells: CHN-xxx-HE-DG, xxx=555 to 605, in steps of 5 n) 100 cells: CHN-xxx-HG-DG, xxx=505 to 555, in steps of 5 o) 80 cells: CHN-xxx-HI-DG, xxx=400 to 440, in steps of 5 182.2x105mm 16BB TOPCON module: p) 132 cells CHN-xxx-NRC-DG, xxx=600 to 650, in steps of 5 q) 96 cells CHN-xxx-NRH-DG, xxx=430 to 475, in steps of 5 r) 120 cells CHN-xxx-NRD-DG, xxx=545 to 590, in steps of 5 s) 108 cells CHN-xxx-NRF-DG, xxx=485 to 530, in steps of 5 182.2x96mm 16BB TOPCON module: t) 144 cells CHN-xxx-NEB-DG, xxx=595 to 625, in steps of 5 u) 120 cells CHN-xxx-NED-DG, xxx=490 to 520, in steps of 5 v) 108 cells CHN-xxx-NEF-DG, xxx=440 to 470, in steps of 5 210x105mm 0BB HJT module: k') 132 cells: CHN-xxx-HC-DG, xxx=720 to 755, in steps of 5
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Data form for critical components and material information

	l') 120 cells: CHN-xxx-HD-DG, xxx=655 to 685, in steps of 5 m') 110 cells: CHN-xxx-HE-DG, xxx=600 to 630, in steps of 5 n') 100 cells: CHN-xxx-HG-DG, xxx=545 to 570, in steps of 5 o') 80 cells: CHN-xxx-HI-DG, xxx=435 to 460, in steps of 5 xxx is standing for rated output power at STC Co-license types: GKAxxx, xxx=665 to 755, in steps of 5, (identical to CHN-xxx-HC-DG, xxx=665 to 755, in steps of 5), GKAxxx-HD-DG, xxx=610 to 685, in steps of 5, (identical to CHN-xxx-HD-DG, xxx=610 to 685, in steps of 5), GKAxxx-HE-DG, xxx=555 to 630, in steps of 5, (identical to CHN-xxx-HE-DG, xxx=555 to 630, in steps of 5), GKAxxx-HG-DG, xxx=505 to 570, in steps of 5, (identical to CHN-xxx-HG-DG, xxx=505 to 570, in steps of 5), GKAxxx-HI-DG, xxx=400 to 460, in steps of 5, (identical to CHN-xxx-HI-DG, xxx=400 to 460, in steps of 5), GKAxxx-NC-DG, xxx=665 to 750, in steps of 5, (identical to CHN-xxx-NC-DG, xxx=665 to 750, in steps of 5), GKAxxx-ND-DG, xxx=605 to 680, in steps of 5, (identical to CHN-xxx-ND-DG, xxx=605 to 680, in steps of 5), GKAxxx-NE-DG, xxx=555 to 625, in steps of 5, (identical to CHN-xxx-NE-DG, xxx=555 to 625, in steps of 5), GKAxxx-NG-DG, xxx=500 to 570, in steps of 5, (identical to CHN-xxx-NG-DG, xxx=500 to 570, in steps of 5), GKAxxx-NI-DG, xxx=400 to 455, in steps of 5, (identical to CHN-xxx-NI-DG, xxx=400 to 455, in steps of 5), GKAxxx-NC-SG, xxx=665 to 730, in steps of 5, (identical to CHN-xxx-NC-SG, xxx=665 to 730, in steps of 5), GKAxxx-ND-SG, xxx=605 to 665, in steps of 5, (identical to CHN-xxx-ND-SG, xxx=605 to 665, in steps of 5), GKAxxx-NE-SG, xxx=555 to 610, in steps of 5, (identical to CHN-xxx-NE-SG, xxx=555 to 610, in steps of 5), GKAxxx-NG-SG, xxx=500 to 555, in steps of 5, (identical to CHN-xxx-NG-SG, xxx=500 to 555, in steps of 5), GKAxxx-NI-SG, xxx=400 to 445, in steps of 5, (identical to CHN-xxx-NI-SG, xxx=400 to 445, in steps of 5), GKAxxx-NRC-DG, xxx=600 to 650, in steps of 5, (identical to CHN-xxx-NRC-DG, xxx=600 to 650, in steps of 5), GKAxxx-NRD-DG, xxx=545 to 590, in steps of 5, (identical to CHN-xxx-NRD-DG, xxx=545 to 590, in steps of 5),
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Data form for critical components and material information

	GKxxx-NRF-DG, xxx=485 to 530, in steps of 5, (identical to CHN-xxx-NRF-DG, xxx=485 to 530, in steps of 5), GKxxx-NRH-DG, xxx=430 to 475, in steps of 5, (identical to CHN-xxx-NRH-DG, xxx=430 to 475, in steps of 5), GKxxx-NEB-DG, xxx=595 to 625, in steps of 5, (identical to CHN-xxx-NEB-DG, xxx=595 to 625, in steps of 5), GKxxx-NED-DG, xxx=490 to 520, in steps of 5, (identical to CHN-xxx-NED-DG, xxx=490 to 520, in steps of 5), GKxxx-NEF-DG, xxx=440 to 470, in steps of 5, (identical to CHN-xxx-NEF-DG, xxx=440 to 470, in steps of 5), xxx is standing for rated output power at STC
Device type	Mono-crystalline Silicon Photovoltaic (PV) Module

Ratings	See below electrical parameter table
Overvoltage category	☐ I / ☐ II / ☒ III / ☐ IV / ☐ N/A
Pollution degree	☒ 1 / ☐ 2 / ☐ 3 / ☐ 4 / ☐ N/A
Class of protection.....	☐ Class I (PE connected) ☒ Class II (isolated) ☐ Class III ☐ Others: ☐ N/A
Product with functional earthing	☐ Yes ☒ N/A
Environmental conditions / Maximum ambient temperature (°C).....	-40~+40
Equipment mobility / Classification of installation and use.....	☐ transportable / ☐ portable / ☐ stationary / ☐ mobile / ☐ fixed / ☒ permanently installed / ☐ hand-held / ☐ body-worn / ☐ building-in / ☒ Others: ≤2000 m above sea level
Overall size of equipment (mm)	a) 2384*1303*30/35[mm] b) 2172*1303*30/35[mm] c) 2384*1098*30/35[mm] d) 2185*1098*30/35[mm] e) 1760*1098*30/35[mm] f) 2384*1303*30/35[mm] g) 2172*1303*30/35[mm] h) 2384*1098*30/35[mm]

Data form for critical components and material information

	i) 2185*1098*30/35[mm] j) 1760*1098*30/35 [mm] k)k') 2384*1303*30/35 [mm] l)l') 2172*1303*30/35 [mm] m)m') 2384*1098*30/35 [mm] n)n') 2185*1098*30/35 [mm] o)o') 1760*1098*30/35 [mm] p) 2382*1134*30/35 [mm] q) 1762*1134*30/35 [mm] r) 2172*1134*30/35 [mm] s) 1960*1134*30/35 [mm] t) 2382*1134*30/35 [mm] u) 1994*1134*30/35 [mm] v) 1800*1134*30/35 [mm]
Mass of equipment (kg)..... :	a) 35.4 or 35.7 (approx) b) 30.6 or 30.9 (approx) c) 28.3 or 28.6 (approx) d) 26.2 or 26.5 (approx) e) 21.2 or 21.5 (approx) f) 38.4 or 38.7 (approx) g) 35.0 or 35.3 (approx) h) 31.8 or 32.1 (approx) i) 29.4 or 29.7 (approx) j) 23.8 or 24.1 (approx) k)k') 38.4 or 38.7 (approx) l)l') 35.0 or 35.3 (approx) m)m') 31.8 or 32.1 (approx) n)n') 29.4 or 29.7 (approx) o)o') 23.8 or 24.1 (approx) p) 33.5 or 33.8 (approx) q) 21.0 or 21.3 (approx) r) 30.4 or 30.7 (approx) s) 27.4 or 27.7 (approx) t) 33.5 or 33.8 (approx) u) 29.7 or 30.0 (approx) v) 30.4 or 30.7 (approx)
Data communication ports:	
☒ N/A	
Wired ports	☒ N/A ☐ USB ☐ LAN ☐ DALI

Form



Data form for critical components and material information

	☐ other:
Wireless ports	☒ N/A ☐ Wifi ☐ Bluetooth ☐ NFC ☐ 4G/LTE ☐ 5G ☐ Other:
Data Storage/ Processing	☒ N/A ☐ Local ☐ Cloud

Additional IEC 60601-1 / EN 60601-1 / ANSI/AAMI ES60601-1 / CAN/CSA-C22.2 No. 60601-1: ☒ N/A	
Applied part type	☐ B ☐ BF ☐ CF ☐ Defibrillation-Proof ☒ No AP
Software Version.....	N/A

General product information and other remarks:

Main label / Warning Markings:

 SILICON PV MODULE Made in China PV Model: CHN-730-NC-SG Rated Maximum Power(Pmax): 730W Power Sorting: 0~+5W Voltage at Pmax(Vmp): 41.20V Current at Pmax(Impp): 17.72A Open-Circuit Voltage(Voc): 49.10V Short-Circuit Current(Isc): 18.78A Maximum System Voltage: 1500V Maximum Series Fuse Rating: 30A Fire Rating: Class C PV Module Classification: Class II Dimensions: 2384*1303*35mm Weight: 35.7Kg Pmax/Voc/Isc Tolerance: ±3% Tested at STC:1000W/m², AM1.5, Cell temperature 25℃ Warning: Solar modules generate electricity as soon as they are exposed to light. One module on its own is below the safety extra low volt level, but multiple modules connected in series (summing the voltage) represent a danger. Do not disconnect under load. Chongqing Taoistic Photoelectric Co., Ltd. Second Floor, South University Computer Building No. 158 Shiqing Road, Nanpan County 40500 Chongqing PEOPLE'S REPUBLIC OF CHINA	
SILICON PV MODULE Warning: Solar modules generate electricity as soon as they are exposed to light. One module on its own is below the safety extra low volt level, but multiple modules connected in series (summing the voltage) represent a danger. Do not disconnect under load.	SILICON PV MODULE PV Model: CHN-750-NC-DG Rated Maximum Power(Pmax): 750W Voltage at Pmax(Vmp): 42.00V Current at Pmax(Impp): 17.86A Open-Circuit Voltage(Voc): 49.90V Short-Circuit Current(Isc): 18.99A Tested at STC: Front 1000W/m², AM1.5; Cell temperature 25℃ Rated Maximum Power(Pmax): 825W Voltage at Pmax(Vmp): 42.00V Current at Pmax(Impp): 19.64A Open-Circuit Voltage(Voc): 50.05V Short-Circuit Current(Isc): 20.90A Bifaciality Pmax/Isc (%): 80%±10% Bifaciality Voc (%): 95%±5% Power Sorting: 0~+5W Pmax/Voc/Isc Tolerance: ±3% Maximum System Voltage: 1500V Maximum Series Fuse Rating: 35A Fire Rating: Class C PV Module Classification: Class II Weight: 38.7Kg Dimension: 2384*1303*35mm Tested at BNPI: Front 1000W/m², rear 135W/m²; AM1.5; Cell temperature 25℃ Nameplate is posted on the rear side of the module. Chongqing Taoistic Photoelectric Co., Ltd. Second Floor, Renmin University Comprehensive Building No. 198 Qinglong Road, Yanyang County 404500 Chongqing PEOPLE'S REPUBLIC OF CHINA

Project-No.: 704062681001

Revision: 00

Date: 2026-09-10

Page 6 of 49



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TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch

3-13F, No. 151 Heng Tong Road Shanghai, P. R. China

Name of Project Handler: Yicheng Zhang

Data form for critical components and material information

SILICON PV MODULE      Solar modules generate electricity as soon as they are exposed to light. One module on its own is below the safety extra low volt level, but multiple modules connected in series (summing the voltage) represent a danger. Do not disconnect under load.		PV Model CHN-650-NRC-DG Rated Maximum Power(Pmax) 650W Voltage at Pmax(Vmp) 43.10V Current at Pmax(Impp) 15.09A Open-Circuit Voltage(Voc) 51.40V Short-Circuit Current(Isc) 16.06A Tested at STC: Front 1000W/m²; AM1.5; Cell temperature 25°C		Rated Maximum Power(Pmax) 715W Voltage at Pmax(Vmp) 43.10V Current at Pmax(Impp) 16.60A Open-Circuit Voltage(Voc) 51.55V Short-Circuit Current(Isc) 17.67A Bifaciality Pmax/Isc (%) 80%±10% Bifaciality Voc (%) 95%±5% Tested at BNPL: Front 1000W/m²; rear 135W/m²; AM1.5; Cell temperature 25°C		Power Sorting 0~+5W Pmax/Voc/Isc Tolerance ±3% Maximum System Voltage 1500V Maximum Series Fuse Rating 30A Fire Rating Class C PV Module Classification Class II Weight 33.3Kg Dimension 2382*1134*30mm Chongqing Taositic Photoelectric Co., Ltd. Second Floor, Renmin University Comprehensive Building No. 198 Qinggang Road, Yuyang County 404500 Chongqing PEOPLES REPUBLIC OF CHINA	
SILICON PV MODULE      Solar modules generate electricity as soon as they are exposed to light. One module on its own is below the safety extra low volt level, but multiple modules connected in series (summing the voltage) represent a danger. Do not disconnect under load.		PV Model CHN-595-NEB-DG Rated Maximum Power(Pmax) 595W Voltage at Pmax(Vmp) 43.80V Current at Pmax(Impp) 13.59A Open-Circuit Voltage(Voc) 51.60V Short-Circuit Current(Isc) 14.48A Tested at STC: Front 1000W/m²; AM1.5; Cell temperature 25°C		Rated Maximum Power(Pmax) 655W Voltage at Pmax(Vmp) 43.80V Current at Pmax(Impp) 14.95A Open-Circuit Voltage(Voc) 51.75V Short-Circuit Current(Isc) 15.93A Bifaciality Pmax/Isc (%) 80%±10% Bifaciality Voc (%) 95%±5% Tested at BNPL: Front 1000W/m²; rear 135W/m²; AM1.5; Cell temperature 25°C		Power Sorting 0~+5W Pmax/Voc/Isc Tolerance ±3% Maximum System Voltage 1500V Maximum Series Fuse Rating 25A Fire Rating Class C PV Module Classification Class II Weight 33.5Kg Dimension 2382*1134*30mm Chongqing Taositic Photoelectric Co., Ltd. Second Floor, Renmin University Comprehensive Building No. 198 Qinggang Road, Yuyang County 404500 Chongqing PEOPLES REPUBLIC OF CHINA	
SILICON PV MODULE       Solar modules generate electricity as soon as they are exposed to light. One module on its own is below the safety extra low volt level, but multiple modules connected in series (summing the voltage) represent a danger. Do not disconnect under load.		PV Model GKA615-NRC-DG Rated Maximum Power(Pmax) 615W Voltage at Pmax(Vmp) 41.10V Current at Pmax(Impp) 14.98A Open-Circuit Voltage(Voc) 49.30V Short-Circuit Current(Isc) 15.89A Tested at STC: Front 1000W/m²; AM1.5; Cell temperature 25°C		Rated Maximum Power(Pmax) 677W Voltage at Pmax(Vmp) 41.10V Current at Pmax(Impp) 16.48A Open-Circuit Voltage(Voc) 49.45V Short-Circuit Current(Isc) 17.48A Bifaciality Pmax/Isc (%) 80%±10% Bifaciality Voc (%) 95%±5% Tested at BNPL: Front 1000W/m²; rear 135W/m²; AM1.5; Cell temperature 25°C Nameplate is posted on the rear side of the module.		Power Sorting 0~+5W Pmax/Voc/Isc Tolerance ±3% Maximum System Voltage 1500V Maximum Series Fuse Rating 35A Fire Rating Class C PV Module Classification Class II Weight 33.8kg Dimension 2382*1134*30mm NANTONG GAMKO NEW ENERGY CO., LTD. 10#-B-1F, NO. 606, KAIFA AVENUE, DAGONG SCI & TECH INDUSTRIAL PARK, HAIJIAN COUNTY , NANTONG, PRC.	
Description of model differences:		See the corresponding test report					
General information / Intended use:		See the corresponding test report					
Equipotential bonding:							
Drawing(s) / Picture(s):		See the corresponding test report					

Form



Data form for critical components and material information

Additional information:

Types of terminations:

Type A: wire of flying lead ☒
Type B: tags, threaded stubs, screws, etc. ☐
Type C: connector ☐
Junction box ☒

Protection devices:

By-pass Diode ☒
Fuse ☐
Other ☐

Fire safety class according to UL790:

Class A ☐
Class B ☐
Class C ☒

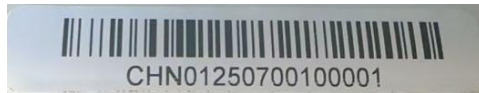
Frame:

Framed ☒
Frameless ☐

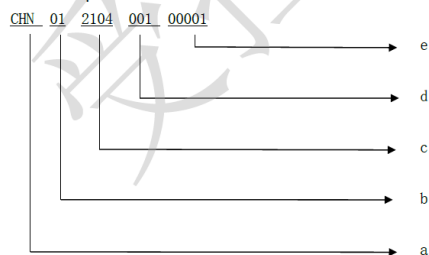
Designed mechanical load and safety factor:

Positive: 3600Pa,1.5
Negative: 1600Pa,1.5

Serial No.bar code for Taoistic:



4.1.1 The component barcode format is as follows:



4.1.2 Component barcode encoding rules:

a) CHN is the abbreviation for Chongqing Taoistic (1st to 3rd place):

corporate name	Company Code
Chongqing Taoistic	CHN

Project-No.: 704062681001

Revision: 00

Date: 2026-09-10

Page 8 of 49

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TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch

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Name of Project Handler: Yicheng Zhang

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Note: If the order requires neutrality, remove the TSW prefix code before printing the barcode.

b) Factory code (4rd to 5th digits):

Factory name	Factory code
Changzhou Taosite 1#	01
Chongqing Taosite 2#	02
Xuzhou Haicui 3#	03

c) Year and month codes (6th to 9th digits)

Year, month	Year and month codes
May 2021	2105
March 2022	2203
*****	*****

d) Work order sequence code(10th to 12th digits):

Work order sequence code
001
002

e) Production quantity flow code(13th to 17th digits):

Production quantity flow code
00001
00002

Serial No.bar code for GAMKO:

Barcode Rules

First three digits: Company specification

Fourth to ninth digits: Production year and month

Tenth to eleventh digits: Production location (where Changzhou factory is A1, Chongqing factory is A2, and Xuzhou factory is A3.)

Twelfth to thirteenth digits: Number of solar cells

Fourteenth to seventeenth digits: Production serial number

For example:

GKA202609A1720001



Limited materials combinations:

Cell	Encapsulant
M21018BTP50	Inshine P601(close to glass) /Inshine E702(close to backsheet)
M21018BTP50	Inshine EP801(close to front cover) / Inshine E701(close to rear cover)
JGYC-210-18BB/ HS-G12HS-0BB	Inshine P601 (close to front cover)/ Inshine P601 (close to rear cover)

Project-No.: 704062681001

Revision: 00

Date: 2026-09-10

Page 9 of 49

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Data form for critical components and material information

210R-16BB N-type	Inshine EP801(close to front cover) / Inshine E701(close to rear cover)
M18216BTP14	Inshine EP801(close to front cover) / Inshine E701(close to rear cover)

EVA	Backsheet
Inshine E702	Inshine201H

Substrate	Adhesive	Junction box
Inshine201H	888A	PV-JX1203x(x=E)
Semi tempered glass	888A	PV-JX1203x(x=E)



Data form for critical components and material information

Critical components and material information:

Single Glass Module:

Kind of component	Manufacturer	Mechanical, electrical and chemical specification	Test report and/or mark from
1-1 cell	Xuzhou Taoistic Solar Technology Co., Ltd.	Mono-Si, Cell type: M21018BTP50, 18BB, N type bifacial TOPCON cell Cell dimensions L x W: 210x105±0.5 (mm) Cell thickness: 130 ± 13 (μ m) Cell area:220.50 (cm ²)	Tested with appliance
2-1 Superstrate	FLAT GLASS GROUP CO.,LTD	Type:AR coating tempered glass Thickness:3.2 (mm)	Tested with appliance
3-1 Substrate (backsheet)	Suzhou Yisheng optical Material Co., Ltd	Type: Inshine201H material: Coating(air side foil)/PET(middle foil)/Coating(inner side foil), Thickness: 10/288/5(um),total 303μm, Color:White	TUV SUD
4-1 Encapsulant	Suzhou Yisheng optical Material Co., Ltd	Type: Inshine P601(close to glass), Material:POE Thickness:0.5mm Type: Inshine E702(close to backsheet), material:EVA, Thickness:0.5mm	Tested with appliance
5-1 Junction box	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Type :PV-JX1203x(x=E), 30A, 1500VDC, -40°C to 85°C IP68(1m,1h)	TUV SUD
6-1 Potting Material inside	Chengdu Guibao Science & Technology Co.,Ltd.	Type 4808, Colour: White, material: silicon	Tested with appliance
7-1 Adhesive for junction box	Chengdu Guibao Science & Technology Co.,Ltd.	Type 888A, Colour: White, material:silicon	Tested with appliance
8-1 Cable for photovoltaic equipment	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Type 62930 IEC 131 1×4mm ² , DC 1500V, -40 °C to 90 °C	TUV SUD
9-1 Connector for Photovoltaic system	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Type: LJQ-1, DC 1500 V, 35 A, IP 68, -40 °C to 85 °C Type: LJQ-3, DC 1500 V, 35 A, IP 68, -40 °C to 85 °C	Tested with appliance
10-1 Bypass diode	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Schottky, Type: SPA4545, Max. peak reverse voltage 45V, Forward Rectified current 45A, Max junction temperature 200 °C No. of bypass diodes: 3	Tested with appliance
11-1 Cell interconnector	SuZhou BONEED Photovoltaic Technology Co., Ltd.	Cross section: Φ0.25mm & 0.26mm Material: Base composition: TU1 (≥99.95%), Sn60Pb40,	Tested with appliance

Data form for critical components and material information

		Coating thickness 18(-5+10)μm for each side,	
12-1 String connector	SuZhou BONEED Photovoltaic Technology Co., Ltd.	Cross section: 4.0x0.35/6.0x0.35 (mm) Material: Base composition: TU1 (≥99.95%), Sn60Pb40, Coating thickness 25(±5)μm for single side	Tested with appliance
13-1 Fluxing material	Singapore Asahi Chemical and Solder Industries Pte Ltd	Type:SF180	Tested with appliance
14-1 Frame	Jiangsu Jinwang Photovoltaic Technology Co., Ltd	Anodized aluminum alloy, type 6005-T6, assembled by key corners, silvery	Tested with appliance
15-1 Adhesive for frame	Chengdu Guibao Science & Technology Co.,Ltd.	Type 888A, Colour: White, material:silicon	Tested with appliance
16 Insulation material between string connectors	N/A	N/A	N/A
17 Fixing tape	3M	Anti-UV PET Tape, type:UV-1	Tested with appliance
18 Label	Avery Dennison(China) Co.,Ltd.	Material:Silver PET TC	Tested with appliance

Data form for critical components and material information

Double Glass Module:

Kind of component	Manufacturer	Mechanical, electrical and chemical specification	Test report and/or mark from
1-1 cell	Xuzhou Taoistic Solar Technology Co., Ltd.	Mono-Si, Cell type: M21018BTP50, 18BB, N type bifacial TOPCON cell Cell dimensions L x W: 210x105±0.5 (mm) Cell thickness: 130 ± 13 (μ m) Cell area:220.50 (cm ²)	Tested with appliance
1-2 cell	Xuzhou Taoistic Century Energy Technology Co., Ltd.	Mono-Si, Cell type: JGYC-210-18BB, N type bifacial HJT cell Cell dimensions L x W: 210x105±0.25 (mm) Cell thickness: 130 ± 30 (μ m) Cell area:220.50 (cm ²)	Tested with appliance
1-3 cell	Anhui Shijing SolarPower Technology Co.,Ltd	Mono-Si, Cell type: 210R-16BB N-type, Bifacial Topcon Cell dimensions L x W: 182.2x105±0.5 (mm) Cell thickness: 130±13 (μm) Cell area:191.31 (cm ²)	Tested with appliance
1-4 cell	Anhui Shijing SolarPower Technology Co.,Ltd	Mono-Si, Cell type: M18216BTP14, 16BB, N type Bifacial Topcon Cell dimensions L x W: 182.2x96±0.5 (mm) Cell thickness: 130± 13 (μm) Cell area:174.912 (cm ²)	Tested with appliance
1-5 cell	ANHUI HUASUN ENERGY CO., LTD.	Mono-Si, Cell type: HS-G12HS-0BB, N type bifacial HJT cell Cell dimensions L x W: 210x105±0.15 (mm) Cell thickness: 110 ± 11 (μm) Cell area: 220.50 (cm ²)	Tested with appliance
2-1 Superstrate	FLAT GLASS GROUP CO.,LTD	Type: coating semi-tempered glass Thickness:2.0 (mm)	Tested with appliance
3-1 Substrate	FLAT GLASS GROUP CO.,LTD	Type: semi-tempered glass, with glaze on internal surface Thickness:2.0 (mm)	Tested with appliance
4-1 Encapsulant	Suzhou Yisheng optical Material Co.,Ltd	Type:Inshine EP801 (close to front cover), Material:EPE Thickness:0.5mm Type:Inshine E701(close to rear cover), Material:EVA Thickness: 0.50mm;	Tested with appliance
4-2 Encapsulant	Suzhou Yisheng optical Material Co.,Ltd	Type:Inshine P601(close to front cover), Material: POE Thickness: 0.5mm	Tested with appliance

Data form for critical components and material information

		Type:Inshine P601(close to rear cover), Material: POE Thickness: 0.5mm	
5-1 Junction box	Taizhou Jinxiu Electrical Science & Technology Co.,Ltd.	Type :PV-JX1203(x=E), 30A, 1500VDC, -40°C to 85°C IP68(1m,1h)	TUV SUD
6-1 Potting Material inside	Chengdu Guibao Science & Technology Co.,Ltd.	Type 4808, Colour: White, material: silicon	Tested with appliance
7-1 Adhesive for junction box	Chengdu Guibao Science & Technology Co.,Ltd.	Type 888A, Colour: White, material:silicon	Tested with appliance
8-1 Cable for photovoltaic equipment	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Type 62930 IEC 131 1×4mm ² , DC 1500V, -40 °C to 90 °C	TUV SUD
9-1 Connector for Photovoltaic system	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Type: LJQ-1, DC 1500 V, 35 A, IP 68, -40 °C to 85 °C Type: LJQ-3, DC 1500 V, 35 A, IP 68, -40 °C to 85 °C	Tested with appliance
10-1 Bypass diode	Taizhou Jinxiu Electrical Science &Technology Co.,Ltd.	Schottky, Type: SPA4545, Max. peak reverse voltage 45V, Forward Rectified current 45A, Max junction temperature 200 °C No. of bypass diodes: 3	Tested with appliance
11-1 Cell interconnector	SuZhou BONEED Photovoltaic Technology Co., Ltd.	Cross section: Φ 0.26mm Material: Base composition: TU1 (≥99.95%), Sn60Pb40, Coating thickness 18(-5+10)μm for each side,	Tested with appliance
12-1 String connector	SuZhou BONEED Photovoltaic Technology Co., Ltd.	Cross section: 4.0x0.35/6.0x0.35 (mm) Material: Base composition: TU1 (≥99.95%), Sn60Pb40, Coating thickness 25(±5)μm for single side	Tested with appliance
13-1 Fluxing material	Shenzhen Tongfang Electronic New Materials Co.,Ltd.	Type: TFHF9200	Tested with appliance
13-2 Fluxing material	Singapore Asahi Chemical and Solder Industries Pte Ltd	Type:SF180	Tested with appliance
14-1 Frame	Jiangsu Jinwang PhotovoltaicTechnology Co., Ltd	Anodized aluminum alloy, type 6005-T6, assembled by key corners, silvery	Tested with appliance
14-2 Frame	BACKBONE Material (CHANGSHU)CO.,LTD	Type: B30-A10-C29-1.0-6.2 Material: steel Steel grade: HC500 Hot-dip zinc-aluminium-magnesium alloy coating. Coating code: XM275 Coating alloy composition: Zn-(1%-13%)Al-(1%-6%)Mg	Tested with appliance

Form



Data form for critical components and material information

15-1 Adhesive for frame	Chengdu Guibao Science & Technology Co.,Ltd.	Type 888A, Colour: White, material:silicon	Tested with appliance
16 Insulation material between string connectors	N/A	N/A	N/A
17 Fixing tape	3M	type UV-1	Tested with appliance
18 Label	Avery Dennison(China) Co.,Ltd.	Material:Silver PET TC	Tested with appliance
19 Adherent adhesive for cell interconnection	Shanghai Huitian New Material Co., Ltd.	Type: 3510. Material: One component fast UV cure thixotropic adhesive	Tested with appliance



Data form for critical components and material information

Electrical Parameter Table:

Single Glass Module:

Product Electrical Ratings at STC (210x105mm TOPCON cell)							
Module	CHN-400-NI-SG	CHN-405-NI-SG	CHN-410-NI-SG	CHN-415-NI-SG	CHN-420-NI-SG	CHN-500-NG-SG	CHN-505-NG-SG
Open-circuit voltage (±3%) [V]:	28.40	28.60	28.80	29.00	29.20	35.20	35.40
Short-circuit current(±3%) [A]:	17.96	18.01	18.06	18.11	18.16	17.91	17.96
Voltage at max. power [V]:	23.60	23.80	24.00	24.20	24.40	29.20	29.40
Current at max. power [A]:	16.95	17.02	17.08	17.15	17.21	17.12	17.18
Max. power(±3%) [W]:	400	405	410	415	420	500	505
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-510-NG-SG	CHN-515-NG-SG	CHN-520-NG-SG	CHN-525-NG-SG	CHN-555-NE-SG	CHN-560-NE-SG	CHN-565-NE-SG
Open-circuit voltage (±3%) [V]:	35.60	35.80	36.00	36.20	39.00	39.20	39.40
Short-circuit current(±3%) [A]:	18.01	18.06	18.11	18.16	18.01	18.06	18.11
Voltage at max. power [V]:	29.60	29.80	30.00	30.20	32.40	32.60	32.80
Current at max. power [A]:	17.23	17.28	17.33	17.38	17.13	17.18	17.23
Max. power(±3%) [W]:	510	515	520	525	555	560	565
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							

Data form for critical components and material information

Module	CHN-570-NE-SG	CHN-575-NE-SG	CHN-580-NE-SG	CHN-605-ND-SG	CHN-610-ND-SG	CHN-615-ND-SG	CHN-620-ND-SG
Open-circuit voltage ($\pm 3\%$) [V]:	39.60	39.80	40.00	42.30	42.50	42.70	42.90
Short-circuit current($\pm 3\%$) [A]:	18.16	18.21	18.26	18.16	18.21	18.26	18.31
Voltage at max. power [V]:	33.00	33.20	33.40	35.00	35.20	35.50	35.70
Current at max. power [A]:	17.28	17.32	17.37	17.25	17.39	17.33	17.37
Max. power($\pm 3\%$) [W]:	570	575	580	605	610	615	620
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-625-ND-SG	CHN-630-ND-SG	CHN-665-NC-SG	CHN-670-NC-SG	CHN-675-NC-SG	CHN-680-NC-SG	CHN-685-NC-SG
Open-circuit voltage ($\pm 3\%$) [V]:	43.10	43.30	46.50	46.70	46.90	47.10	47.30
Short-circuit current($\pm 3\%$) [A]:	18.36	18.41	18.14	18.19	18.24	18.29	18.34
Voltage at max. power [V]:	35.90	36.10	38.60	38.80	39.00	39.20	39.40
Current at max. power [A]:	17.41	17.46	17.23	17.27	17.31	17.35	17.39
Max. power($\pm 3\%$) [W]:	625	630	665	670	675	680	685
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-690-NC-SG	CHN-695-NC-SG	-	-	-	-	-
Open-circuit voltage (	47.50	47.70	-	-	-	-	-

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	18.39	18.44	-	-	-	-	-
Voltage at max. power [V]:	39.60	39.80	-	-	-	-	-
Current at max. power [A]:	17.43	17.47	-	-	-	-	-
Max. power(±3%) [W]:	690	695	-	-	-	-	-
Maximum system voltage [V]	1500	1500	-	-	-	-	-
Series Fuse Rating [A]	30	30	-	-	-	-	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-700-NC-SG	CHN-705-NC-SG	CHN-710-NC-SG	CHN-715-NC-SG	CHN-720-NC-SG	CHN-725-NC-SG	CHN-730-NC-SG
Open-circuit voltage (±3%) [V]:	47.90	48.10	48.30	48.50	48.70	48.90	49.10
Short-circuit current(±3%) [A]:	18.49	18.54	18.59	18.64	18.69	18.74	18.79
Voltage at max. power [V]:	40.00	40.20	40.40	40.60	40.80	41.00	41.20
Current at max. power [A]:	17.51	17.54	17.58	17.62	17.65	17.69	17.72
Max. power(±3%) [W]:	700	705	710	715	720	725	730
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-635-ND-SG	CHN-640-ND-SG	CHN-645-ND-SG	CHN-650-ND-SG	CHN-655-ND-SG	CHN-660-ND-SG	CHN-665-ND-SG
Open-circuit voltage (±3%) [V]:	43.50	43.70	43.90	44.10	44.30	44.50	44.70
Short-circuit current(±3%) [A]:	18.46	18.51	18.56	18.61	18.66	18.71	18.76

Data form for critical components and material information

Voltage at max. power [V]:	36.30	36.50	36.70	36.90	37.10	37.30	37.50
Current at max. power [A]:	17.50	17.54	17.58	17.62	17.66	17.70	17.74
Max. power(±3%) [W]:	635	640	645	650	655	660	665
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-585-NE-SG	CHN-590-NE-SG	CHN-595-NE-SG	CHN-600-NE-SG	CHN-605-NE-SG	CHN-610-NE-SG	-
Open-circuit voltage (±3%) [V]:	40.20	40.40	40.60	40.80	41.00	41.20	-
Short-circuit current(±3%) [A]:	18.31	18.36	18.41	18.46	18.51	18.56	-
Voltage at max. power [V]:	33.60	33.80	34.00	34.20	34.40	34.60	-
Current at max. power [A]:	17.41	17.46	17.50	17.55	17.59	17.63	-
Max. power(±3%) [W]:	585	590	595	600	605	610	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	-
Series Fuse Rating [A]	30	30	30	30	30	30	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-530-NG-SG	CHN-535-NG-SG	CHN-540-NG-SG	CHN-545-NG-SG	CHN-550-NG-SG	CHN-555-NG-SG	-
Open-circuit voltage (±3%) [V]:	36.40	36.60	36.80	37.00	37.20	37.40	-
Short-circuit current(±3%) [A]:	18.21	18.26	18.31	18.36	18.41	18.46	-
Voltage at max. power [V]:	30.40	30.60	30.80	31.00	31.20	31.40	-
Current at max. power [A]:	17.43	17.48	17.53	17.58	17.63	17.68	-
Max. power(±3%) [W]:	530	535	540	545	550	555	-

Data form for critical components and material information

Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	-
Series Fuse Rating [A]	30	30	30	30	30	30	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-425-NI-SG	CHN-430-NI-SG	CHN-435-NI-SG	CHN-440-NI-SG	CHN-445-NI-SG	-	-
Open-circuit voltage (±3%) [V]:	29.40	29.60	29.80	30.00	30.20	-	-
Short-circuit current (±3%) [A]:	18.21	18.26	18.31	18.36	18.41	-	-
Voltage at max. power [V]:	24.60	24.80	25.00	25.20	25.40	-	-
Current at max. power [A]:	17.28	17.34	17.40	17.46	17.52	-	-
Max. power (±3%) [W]:	425	430	435	440	445	-	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	-	-
Series Fuse Rating [A]	30	30	30	30	30	-	-

Double Glass Module:

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-400-NI-DG	CHN-405-NI-DG	CHN-410-NI-DG	CHN-415-NI-DG	CHN-420-NI-DG	CHN-500-NG-DG	CHN-505-NG-DG
Open-circuit voltage (±3%) [V]:	28.40	28.60	28.80	29.00	29.20	35.20	35.40
Short-circuit current (±3%) [A]:	17.96	18.01	18.06	18.11	18.16	17.91	17.96
Voltage at max. power [V]:	23.60	23.80	24.00	24.20	24.40	29.20	29.40
Current at max. power [A]:	16.95	17.02	17.08	17.15	17.21	17.12	17.18
Max. power (±3%) [W]:	400	405	410	415	420	500	505
Product Electrical Ratings at BNPI:							
Open-circuit voltage (	28.40	28.60	28.80	29.00	29.20	35.20	35.40

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	19.40	19.45	19.50	19.56	19.61	19.34	19.40
Voltage at max. power [V]:	23.60	23.80	24.00	24.20	24.40	29.20	29.40
Current at max. power [A]:	18.31	18.38	18.45	18.52	18.59	18.49	18.55
Max. power(±3%) [W]:	432.00	437.40	442.80	448.20	453.60	540.00	545.40
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-510-NG-DG	CHN-515-NG-DG	CHN-520-NG-DG	CHN-525-NG-DG	CHN-555-NE-DG	CHN-560-NE-DG	CHN-565-NE-DG
Open-circuit voltage (±3%) [V]:	35.60	35.80	36.00	36.20	39.00	39.20	39.40
Short-circuit current(±3%) [A]:	18.01	18.06	18.11	18.16	18.01	18.06	18.11
Voltage at max. power [V]:	29.60	29.80	30.00	30.20	32.40	32.60	32.80
Current at max. power [A]:	17.23	17.28	17.33	17.38	17.13	17.18	17.23
Max. power(±3%) [W]:	510	515	520	525	555	560	565
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	35.60	35.80	36.00	36.20	39.00	39.20	39.40
Short-circuit current(±3%) [A]:	19.45	19.50	19.56	19.61	19.45	19.50	19.56
Voltage at max. power [V]:	29.60	29.80	30.00	30.20	32.40	32.60	32.80
Current at max. power [A]:	18.61	18.66	18.72	18.77	18.50	18.55	18.61
Max. power(±3%) [W]:	550.80	556.20	561.60	567.00	559.40	604.80	610.20
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Data form for critical components and material information

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-570-NE-DG	CHN-575-NE-DG	CHN-580-NE-DG	CHN-605-ND-DG	CHN-610-ND-DG	CHN-615-ND-DG	CHN-620-ND-DG
Open-circuit voltage (±3%) [V]:	39.60	39.80	40.00	42.30	42.50	42.70	42.90
Short-circuit current(±3%) [A]:	18.16	18.21	18.26	18.16	18.21	18.26	18.31
Voltage at max. power [V]:	33.00	33.20	33.40	35.00	35.20	35.50	35.70
Current at max. power [A]:	17.28	17.32	17.37	17.25	17.39	17.33	17.37
Max. power(±3%) [W]:	570	575	580	605	610	615	620
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	39.60	39.80	40.00	42.30	42.50	42.70	42.90
Short-circuit current(±3%) [A]:	19.61	19.67	19.72	19.61	19.67	19.72	19.77
Voltage at max. power [V]:	33.00	33.20	33.40	35.00	35.20	35.50	35.70
Current at max. power [A]:	18.66	18.71	18.76	18.63	18.67	18.72	18.76
Max. power(±3%) [W]:	615.60	621.00	626.40	653.40	658.80	664.20	669.60
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-625-ND-DG	CHN-630-ND-DG	CHN-665-NC-DG	CHN-670-NC-DG	CHN-675-NC-DG	CHN-680-NC-DG	CHN-685-NC-DG
Open-circuit voltage (±3%) [V]:	43.10	43.30	46.50	46.70	46.90	47.10	47.30
Short-circuit current(±3%) [A]:	18.36	18.41	18.14	18.19	18.24	18.29	18.34
Voltage at max. power [V]:	35.90	36.10	38.60	38.80	39.00	39.20	39.40

Data form for critical components and material information

Current at max. power [A]:	17.41	17.46	17.23	17.27	17.31	17.35	17.39
Max. power(±3%) [W]:	625	630	665	670	675	680	685
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	43.10	43.30	46.50	46.70	46.90	47.10	47.30
Short-circuit current(±3%) [A]:	19.83	19.88	19.59	19.65	19.70	19.75	19.81
Voltage at max. power [V]:	35.90	36.10	38.60	38.80	39.00	39.20	39.40
Current at max. power [A]:	18.80	18.86	18.61	18.65	18.69	18.74	18.78
Max. power(±3%) [W]:	675.00	680.40	718.20	723.60	729.00	734.40	739.80
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-690-NC-DG	CHN-695-NC-DG	-	-	-	-	-
Open-circuit voltage (±3%) [V]:	47.50	47.70	-	-	-	-	-
Short-circuit current(±3%) [A]:	18.39	18.44	-	-	-	-	-
Voltage at max. power [V]:	39.60	39.80	-	-	-	-	-
Current at max. power [A]:	17.43	17.47	-	-	-	-	-
Max. power(±3%) [W]:	690	695	-	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	47.50	47.70	-	-	-	-	-
Short-circuit current(±3%) [A]:	19.86	19.92	-	-	-	-	-
Voltage at max. power [V]:	39.60	39.80	-	-	-	-	-

Data form for critical components and material information

Current at max. power [A]:	18.82	18.87	-	-	-	-	-
Max. power(±3%) [W]:	745.20	750.60	-	-	-	-	-
Maximum system voltage [V]	1500	1500	-	-	-	-	-
Series Fuse Rating [A]	35	35	-	-	-	-	-
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-400-HI-DG	CHN-405-HI-DG	CHN-410-HI-DG	CHN-415-HI-DG	CHN-420-HI-DG	CHN-425-HI-DG	CHN-430-HI-DG
Open-circuit voltage (±3%) [V]:	29.08	29.34	29.61	29.86	30.12	30.38	30.64
Short-circuit current(±3%) [A]:	17.19	17.25	17.31	17.37	17.43	17.49	17.55
Voltage at max. power [V]:	24.40	24.62	24.83	25.04	25.25	25.46	25.67
Current at max. power [A]:	16.39	16.45	16.51	16.57	16.64	16.70	16.76
Max. power(±3%) [W]:	400	405	410	415	420	425	430
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	29.08	29.34	29.61	29.86	30.12	30.38	30.64
Short-circuit current(±3%) [A]:	18.91	18.98	19.04	19.11	19.17	19.24	19.31
Voltage at max. power [V]:	24.40	24.62	24.83	25.04	25.25	25.46	25.67
Current at max. power [A]:	18.03	18.10	18.16	18.23	18.30	18.37	18.44
Max. power(±3%) [W]:	440.00	445.50	451.00	456.50	462.00	467.50	473.00
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-435-HI-DG	CHN-440-HI-DG	CHN-505-HG-DG	CHN-510-HG-DG	CHN-515-HG-DG	CHN-520-HG-DG	CHN-525-HG-DG
Open-circuit voltage (±3%) [V]:	30.90	31.16	36.72	36.96	37.19	37.42	37.65

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	17.61	17.67	17.19	17.25	17.31	17.37	17.43
Voltage at max. power [V]:	25.88	26.09	30.83	31.03	31.22	31.41	31.59
Current at max. power [A]:	16.81	16.87	16.38	16.44	16.50	16.56	16.62
Max. power(±3%) [W]:	435	440	505	510	515	520	525
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	30.90	31.16	36.72	36.96	37.19	37.42	30.64
Short-circuit current(±3%) [A]:	19.37	19.44	18.91	18.98	19.04	19.11	19.31
Voltage at max. power [V]:	25.88	26.09	30.83	31.03	31.22	31.41	25.67
Current at max. power [A]:	18.49	18.56	18.02	18.08	18.15	18.22	18.44
Max. power(±3%) [W]:	478.50	484.00	555.50	561.00	566.50	572.00	473.00
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-530-HG-DG	CHN-535-HG-DG	CHN-540-HG-DG	CHN-545-HG-DG	CHN-550-HG-DG	CHN-555-HG-DG	CHN-555-HE-DG
Open-circuit voltage (±3%) [V]:	37.87	38.10	38.33	38.56	38.79	38.85	40.49
Short-circuit current(±3%) [A]:	17.49	17.55	17.61	17.67	17.73	17.79	17.16
Voltage at max. power [V]:	31.78	31.96	32.14	32.33	32.52	32.71	33.98
Current at max. power [A]:	16.68	16.74	16.81	16.87	16.93	16.99	16.34
Max. power(±3%) [W]:	530	535	540	545	550	555	555
Product Electrical Ratings at BNPI:							
Open-circuit voltage (	37.87	38.10	38.33	38.56	38.79	38.85	40.49

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	19.24	19.31	19.37	19.44	19.50	19.57	18.88
Voltage at max. power [V]:	31.78	31.96	32.14	32.33	32.52	32.71	33.98
Current at max. power [A]:	18.35	18.41	18.49	18.56	18.62	18.69	17.95
Max. power(±3%) [W]:	583.00	588.50	594.00	599.50	605.00	610.50	610.50
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-560-HE-DG	CHN-565-HE-DG	CHN-570-HE-DG	CHN-575-HE-DG	CHN-580-HE-DG	CHN-585-HE-DG	CHN-590-HE-DG
Open-circuit voltage (±3%) [V]:	40.77	40.96	41.16	41.35	41.54	41.75	41.94
Short-circuit current(±3%) [A]:	17.19	17.25	17.31	17.37	17.43	17.49	17.55
Voltage at max. power [V]:	34.17	34.35	34.52	34.71	34.88	35.05	35.12
Current at max. power [A]:	16.39	16.45	16.52	16.57	16.63	16.70	16.76
Max. power(±3%) [W]:	560	565	570	575	580	585	590
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	40.77	40.96	41.16	41.35	41.54	41.75	41.94
Short-circuit current(±3%) [A]:	18.91	18.98	19.04	19.11	19.17	19.24	19.31
Voltage at max. power [V]:	34.17	34.35	34.53	34.71	34.88	35.05	35.12
Current at max. power [A]:	18.03	18.10	18.21	18.23	18.29	18.36	18.44
Max. power(±3%) [W]:	616.00	621.50	627.00	632.50	638.00	643.50	649.00
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500

Data form for critical components and material information

Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-595-HE-DG	CHN-600-HE-DG	CHN-605-HE-DG	CHN-610-HD-DG	CHN-615-HD-DG	CHN-620-HD-DG	CHN-625-HD-DG
Open-circuit voltage (±3%) [V]:	42.13	42.32	42.51	44.40	44.46	44.52	44.58
Short-circuit current(±3%) [A]:	17.61	17.67	17.73	16.75	16.85	16.95	17.05
Voltage at max. power [V]:	35.19	35.26	35.33	39.04	39.10	39.14	39.20
Current at max. power [A]:	16.83	16.90	16.97	15.61	15.73	15.85	15.96
Max. power(±3%) [W]:	595	600	605	610	615	620	625
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	42.13	42.32	42.51	42.52	43.52	44.52	44.58
Short-circuit current(±3%) [A]:	19.37	19.44	19.50	18.43	18.54	18.65	18.76
Voltage at max. power [V]:	35.19	35.26	35.33	37.14	38.14	39.14	39.20
Current at max. power [A]:	18.51	18.59	18.67	17.17	17.30	17.44	17.56
Max. power(±3%) [W]:	654.50	660.00	665.50	671.00	676.50	682.00	687.50
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-630-HD-DG	CHN-635-HD-DG	CHN-640-HD-DG	CHN-645-HD-DG	CHN-650-HD-DG	CHN-655-HD-DG	CHN-660-HD-DG
Open-circuit voltage (±3%) [V]:	44.64	44.70	44.76	44.82	44.88	44.94	45.00
Short-circuit current(±3%) [A]:	17.16	17.27	17.33	17.42	17.53	17.64	17.75

Data form for critical components and material information

Voltage at max. power [V]:	39.26	39.31	39.37	39.48	39.60	39.72	39.84
Current at max. power [A]:	16.08	16.17	16.27	16.34	16.42	16.5	16.58
Max. power(±3%) [W]:	630	635	640	645	650	655	660
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	44.64	44.70	44.76	44.82	44.88	44.94	45.00
Short-circuit current(±3%) [A]:	18.88	19.00	19.06	19.16	19.28	19.40	19.53
Voltage at max. power [V]:	39.26	39.31	39.37	39.48	39.60	39.72	39.84
Current at max. power [A]:	17.69	17.79	17.90	17.97	18.06	18.15	18.24
Max. power(±3%) [W]:	693.00	698.50	704.00	709.50	715.00	720.50	726.00
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-665-HC-DG	CHN-670-HC-DG	CHN-675-HC-DG	CHN-680-HC-DG	CHN-685-HC-DG	CHN-690-HC-DG	CHN-695-HC-DG
Open-circuit voltage (±3%) [V]:	48.71	48.77	48.84	48.91	48.97	49.04	49.10
Short-circuit current(±3%) [A]:	16.77	16.84	16.91	16.98	17.06	17.14	17.22
Voltage at max. power [V]:	41.80	42.01	42.23	42.44	42.63	42.82	43.02
Current at max. power [A]:	15.93	15.97	16.01	16.05	16.09	16.14	16.18
Max. power(±3%) [W]:	665	670	675	680	685	690	695
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	48.71	48.77	48.84	48.91	48.97	49.04	49.10
Short-circuit current(±3%) [A]:	18.45	18.52	18.60	18.68	18.77	18.85	18.94

Data form for critical components and material information

Voltage at max. power [V]:	41.80	42.01	42.23	42.44	42.63	42.82	43.02
Current at max. power [A]:	17.52	17.57	17.61	17.66	17.70	17.75	17.80
Max. power(±3%) [W]:	731.50	737.00	742.50	748.00	753.50	759.00	764.50
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-700-HC-DG	CHN-705-HC-DG	CHN-710-HC-DG	CHN-715-HC-DG	CHN-720-HC-DG	CHN-725-HC-DG	CHN-730-HC-DG
Open-circuit voltage (±3%) [V]:	49.17	49.24	49.30	49.37	49.44	49.51	49.58
Short-circuit current(±3%) [A]:	17.31	17.39	17.47	17.55	17.62	17.70	17.78
Voltage at max. power [V]:	43.21	43.40	43.59	43.78	43.96	44.14	44.32
Current at max. power [A]:	16.23	16.27	16.30	16.33	16.39	16.43	16.48
Max. power(±3%) [W]:	700	705	710	715	720	725	730
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	49.17	49.24	49.30	49.37	49.44	49.51	49.58
Short-circuit current(±3%) [A]:	19.04	19.13	19.21	19.31	19.38	19.47	19.56
Voltage at max. power [V]:	43.21	43.40	43.59	43.78	43.96	44.14	44.32
Current at max. power [A]:	17.85	17.90	17.93	17.96	18.03	18.07	18.11
Max. power(±3%) [W]:	770.00	775.50	781.00	786.50	792.00	797.50	803
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35
Product Electrical Ratings at STC: (210x105mm HJT cell)							

Data form for critical components and material information

Module	CHN-735-HC-DG	CHN-740-HC-DG	CHN-745-HC-DG	CHN-750-HC-DG	CHN-755-HC-DG	-	-
Open-circuit voltage ($\pm 3\%$) [V]:	49.65	49.72	49.79	49.86	49.93	-	-
Short-circuit current($\pm 3\%$) [A]:	17.86	17.94	18.02	18.10	18.18	-	-
Voltage at max. power [V]:	44.50	44.68	44.86	45.04	45.22	-	-
Current at max. power [A]:	16.52	16.56	16.61	16.65	16.70	-	-
Max. power($\pm 3\%$) [W]:	735	740	745	750	755	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage ($\pm 3\%$) [V]:	49.80	49.87	49.94	50.01	50.08	-	-
Short-circuit current($\pm 3\%$) [A]:	19.65	19.73	19.82	19.91	20.00	-	-
Voltage at max. power [V]:	44.50	44.68	44.86	45.04	45.22	-	-
Current at max. power [A]:	18.17	18.22	18.27	18.32	18.37	-	-
Max. power($\pm 3\%$) [W]:	809	814	820	825	831	-	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	-	-
Series Fuse Rating [A]	35	35	35	35	35	-	-
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-665-HD-DG	CHN-670-HD-DG	CHN-675-HD-DG	CHN-680-HD-DG	CHN-685-HD-DG	-	-
Open-circuit voltage ($\pm 3\%$) [V]:	45.06	45.12	45.18	45.24	45.30	-	-
Short-circuit current($\pm 3\%$) [A]:	17.86	17.97	18.08	18.19	18.30	-	-
Voltage at max. power [V]:	39.96	40.08	40.20	40.32	40.44	-	-
Current at max. power [A]:	16.65	16.72	16.79	16.87	16.95	-	-
Max. power(	665	670	675	680	685	-	-

Data form for critical components and material information

±3%) [W]:							
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	45.20	45.26	45.32	45.38	45.44	-	-
Short-circuit current(±3%) [A]:	19.65	19.77	19.89	20.01	20.13	-	-
Voltage at max. power [V]:	39.96	40.08	40.20	40.32	40.44	-	-
Current at max. power [A]:	18.32	18.39	18.47	18.56	18.65	-	-
Max. power(±3%) [W]:	732	737	743	748	754	-	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	-	-
Series Fuse Rating [A]	35	35	35	35	35	-	-
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-610-HE-DG	CHN-615-HE-DG	CHN-620-HE-DG	CHN-625-HE-DG	CHN-630-HE-DG	-	-
Open-circuit voltage (±3%) [V]:	42.70	42.89	43.08	43.27	43.46	-	-
Short-circuit current(±3%) [A]:	17.79	17.85	17.91	17.97	18.03	-	-
Voltage at max. power [V]:	35.40	35.47	35.54	35.61	35.68	-	-
Current at max. power [A]:	17.23	17.33	17.45	17.55	17.65	-	-
Max. power(±3%) [W]:	610	615	620	625	630	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	42.83	43.02	43.21	43.40	43.59	-	-
Short-circuit current(±3%) [A]:	19.57	19.64	19.70	19.77	19.83	-	-
Voltage at max. power [V]:	35.40	35.47	35.54	35.61	35.68	-	-
Current at max. power [A]:	18.95	19.06	19.20	19.31	19.42	-	-
Max. power(±3%) [W]:	671	677	682	688	693	-	-

Data form for critical components and material information

±3%) [W]:							
Maximum system voltage [V]	1500	1500	1500	1500	1500	-	-
Series Fuse Rating [A]	35	35	35	35	35	-	-
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-560-HG-DG	CHN-565-HG-DG	CHN-570-HG-DG	-	-	-	-
Open-circuit voltage (±3%) [V]:	39.08	39.31	39.54	-	-	-	-
Short-circuit current(±3%) [A]:	17.85	17.91	17.97	-	-	-	-
Voltage at max. power [V]:	32.90	33.09	33.28	-	-	-	-
Current at max. power [A]:	17.05	17.11	17.17	-	-	-	-
Max. power(±3%) [W]:	560	565	570	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	39.20	39.43	39.66	-	-	-	-
Short-circuit current(±3%) [A]:	19.64	19.70	19.77	-	-	-	-
Voltage at max. power [V]:	32.90	33.09	33.28	-	-	-	-
Current at max. power [A]:	18.76	18.82	18.89	-	-	-	-
Max. power(±3%) [W]:	616	622	627	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-
Series Fuse Rating [A]	35	35	35	-	-	-	-
Product Electrical Ratings at STC: (210x105mm HJT cell)							
Module	CHN-445-HI-DG	CHN-450-HI-DG	CHN-455-HI-DG	CHN-460-HI-DG	-	-	-
Open-circuit voltage (	31.42	31.68	31.94	32.20	-	-	-

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	17.73	17.79	17.85	17.91	-	-	-
Voltage at max. power [V]:	26.30	26.51	26.71	26.91	-	-	-
Current at max. power [A]:	16.93	16.99	17.05	17.11	-	-	-
Max. power(±3%) [W]:	445	450	455	460	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	31.51	31.78	32.04	32.30	-	-	-
Short-circuit current(±3%) [A]:	19.503	19.57	19.64	19.70	-	-	-
Voltage at max. power [V]:	26.3	26.51	26.71	26.91	-	-	-
Current at max. power [A]:	18.623	18.69	18.76	18.82	-	-	-
Max. power(±3%) [W]:	489.5	495	501	506	-	-	-
Maximum system voltage [V]	1500	1500	1500	1500	-	-	-
Series Fuse Rating [A]	35	35	35	35	-	-	-

Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-600-NRC-DG	CHN-605-NRC-DG	CHN-610-NRC-DG	CHN-615-NRC-DG	CHN-620-NRC-DG	CHN-625-NRC-DG	CHN-630-NRC-DG
Open-circuit voltage (±3%) [V]:	48.40	48.70	49.00	49.30	49.60	49.90	50.20
Short-circuit current(±3%) [A]:	15.80	15.83	15.86	15.89	15.91	15.92	15.94
Voltage at max. power [V]:	40.30	40.50	40.80	41.10	41.40	41.70	42.00
Current at max. power [A]:	14.91	14.94	14.96	14.98	14.99	15.00	15.01
Max. power(±3%) [W]:	600	605	610	615	620	625	630
Product Electrical Ratings at BNPI:							

Data form for critical components and material information

Open-circuit voltage ($\pm 3\%$) [V]:	48.55	48.85	49.15	49.45	49.75	50.05	50.35
Short-circuit current($\pm 3\%$) [A]:	17.38	17.41	17.45	17.48	17.50	17.51	17.53
Voltage at max. power [V]:	40.30	40.50	40.80	41.10	41.40	41.70	42.00
Current at max. power [A]:	16.40	16.43	16.46	16.48	16.49	16.50	16.51
Max. power($\pm 3\%$) [W]:	660	666	671	677	682	688	693
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-430-NRH-DG	CHN-435-NRH-DG	CHN-440-NRH-DG	CHN-445-NRH-DG	CHN-450-NRH-DG	CHN-455-NRH-DG	CHN-460-NRH-DG
Open-circuit voltage ($\pm 3\%$) [V]:	34.75	34.98	35.20	35.42	35.64	35.85	36.06
Short-circuit current($\pm 3\%$) [A]:	15.73	15.76	15.80	15.83	15.86	15.90	15.93
Voltage at max. power [V]:	28.96	29.22	29.52	29.79	30.09	30.34	30.64
Current at max. power [A]:	14.86	14.89	14.91	14.94	14.96	15.00	15.03
Max. power($\pm 3\%$) [W]:	430	435	440	445	450	455	460
Product Electrical Ratings at BNPI:							
Open-circuit voltage ($\pm 3\%$) [V]:	34.85	35.08	35.31	35.53	35.75	35.96	36.17
Short-circuit current($\pm 3\%$) [A]:	17.30	17.34	17.38	17.41	17.45	17.49	17.52
Voltage at max. power [V]:	28.96	29.22	29.52	29.79	30.09	30.34	30.64
Current at max. power [A]:	16.35	16.38	16.40	16.43	16.46	16.50	16.53
Max. power($\pm 3\%$) [W]:	473	479	484	490	495	501	506

Data form for critical components and material information

Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-545-NRD-DG	CHN-550-NRD-DG	CHN-555-NRD-DG	CHN-560-NRD-DG	CHN-565-NRD-DG	CHN-570-NRD-DG	CHN-575-NRD-DG
Open-circuit voltage ($\pm 3\%$) [V]:	43.70	43.90	44.10	44.30	44.50	44.70	44.90
Short-circuit current($\pm 3\%$) [A]:	15.54	15.58	15.62	15.67	15.72	15.78	15.84
Voltage at max. power [V]:	37.00	37.20	37.40	37.70	37.90	38.10	38.40
Current at max. power [A]:	14.74	14.78	14.82	14.86	14.90	14.94	14.98
Max. power($\pm 3\%$) [W]:	545	550	555	560	565	570	575
Product Electrical Ratings at BNPI:							
Open-circuit voltage ($\pm 3\%$) [V]:	43.83	44.03	44.23	44.43	44.63	44.83	45.03
Short-circuit current($\pm 3\%$) [A]:	17.09	17.14	17.18	17.24	17.29	17.36	17.42
Voltage at max. power [V]:	37.00	37.20	37.40	37.70	37.90	38.10	38.40
Current at max. power [A]:	16.21	16.26	16.30	16.35	16.39	16.43	16.48
Max. power($\pm 3\%$) [W]:	600	605	611	616	622	627	633
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-485-NRF-DG	CHN-490-NRF-DG	CHN-495-NRF-DG	CHN-500-NRF-DG	CHN-505-NRF-DG	CHN-510-NRF-DG	CHN-515-NRF-DG
Open-circuit voltage (	39.06	39.26	39.46	39.66	39.86	40.06	40.26

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	15.43	15.51	15.58	15.66	15.74	15.82	15.90
Voltage at max. power [V]:	32.45	32.65	32.85	33.05	33.25	33.45	33.65
Current at max. power [A]:	14.95	15.01	15.07	15.13	15.19	15.25	15.31
Max. power(±3%) [W]:	485	490	495	500	505	510	515
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	39.18	39.38	39.58	39.78	39.98	40.18	40.38
Short-circuit current(±3%) [A]:	16.97	17.06	17.14	17.23	17.31	17.40	17.49
Voltage at max. power [V]:	32.45	32.65	32.85	33.05	33.25	33.45	33.65
Current at max. power [A]:	16.45	16.51	16.58	16.64	16.71	16.78	16.84
Max. power(±3%) [W]:	534	539	545	550	556	561	567
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-635-NRC-DG	CHN-640-NRC-DG	CHN-645-NRC-DG	CHN-650-NRC-DG	-	-	-
Open-circuit voltage (±3%) [V]:	50.50	50.80	51.10	51.40	-	-	-
Short-circuit current(±3%) [A]:	15.97	16.00	16.03	16.06	-	-	-
Voltage at max. power [V]:	42.30	42.50	42.80	43.10	-	-	-
Current at max. power [A]:	15.02	15.05	15.07	15.09	-	-	-
Max. power(±3%) [W]:	635	640	645	650	-	-	-
Product Electrical Ratings at BNPI:							

Data form for critical components and material information

Open-circuit voltage ($\pm 3\%$) [V]:	50.65	50.95	51.25	51.55	-	-	-
Short-circuit current($\pm 3\%$) [A]:	17.57	17.60	17.63	17.67	-	-	-
Voltage at max. power [V]:	42.30	42.50	42.80	43.10	-	-	-
Current at max. power [A]:	16.52	16.56	16.58	16.60	-	-	-
Max. power($\pm 3\%$) [W]:	699	704	710	715	-	-	-
Maximum system voltage [V]	1500	1500	1500	1500	-	-	-
Series Fuse Rating [A]	35	35	35	35	-	-	-
Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-580-NRD-DG	CHN-585-NRD-DG	CHN-590-NRD-DG	-	-	-	-
Open-circuit voltage ($\pm 3\%$) [V]:	45.10	45.30	45.50	-	-	-	-
Short-circuit current($\pm 3\%$) [A]:	15.90	15.96	16.02	-	-	-	-
Voltage at max. power [V]:	38.60	38.80	39.00	-	-	-	-
Current at max. power [A]:	15.03	15.08	15.13	-	-	-	-
Max. power($\pm 3\%$) [W]:	580	585	590	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage ($\pm 3\%$) [V]:	45.24	45.44	45.64	-	-	-	-
Short-circuit current($\pm 3\%$) [A]:	17.49	17.56	17.62	-	-	-	-
Voltage at max. power [V]:	38.60	38.80	39.00	-	-	-	-
Current at max. power [A]:	16.53	16.59	16.64	-	-	-	-
Max. power($\pm 3\%$) [W]:	638	644	649	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-

Data form for critical components and material information

Series Fuse Rating [A]	35	35	35	-	-	-	-
Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-520-NRF-DG	CHN-525-NRF-DG	CHN-530-NRF-DG	-	-	-	-
Open-circuit voltage (±3%) [V]:	40.46	40.66	40.86	-	-	-	-
Short-circuit current(±3%) [A]:	15.98	16.06	16.14	-	-	-	-
Voltage at max. power [V]:	33.85	34.05	34.25	-	-	-	-
Current at max. power [A]:	15.36	15.42	15.47	-	-	-	-
Max. power(±3%) [W]:	520	525	530	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	40.58	40.78	40.98	-	-	-	-
Short-circuit current(±3%) [A]:	17.58	17.67	17.75	-	-	-	-
Voltage at max. power [V]:	33.85	34.05	34.25	-	-	-	-
Current at max. power [A]:	16.90	16.96	17.02	-	-	-	-
Max. power(±3%) [W]:	572	578	583	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-
Series Fuse Rating [A]	35	35	35	-	-	-	-
Product Electrical Ratings at STC: (182.2x105mm TOPCON cell)							
Module	CHN-465-NRH-DG	CHN-470-NRH-DG	CHN-475-NRH-DG	-	-	-	-
Open-circuit voltage (±3%) [V]:	36.27	36.48	36.69	-	-	-	-
Short-circuit current(±3%) [A]:	15.96	15.99	16.02	-	-	-	-

Data form for critical components and material information

Voltage at max. power [V]:	30.89	31.14	31.39	-	-	-	-
Current at max. power [A]:	15.06	15.09	15.13	-	-	-	-
Max. power(±3%) [W]:	465	470	475	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	36.38	36.59	36.80	-	-	-	-
Short-circuit current(±3%) [A]:	17.56	17.59	17.62	-	-	-	-
Voltage at max. power [V]:	30.89	31.14	31.39	-	-	-	-
Current at max. power [A]:	16.57	16.60	16.65	-	-	-	-
Max. power(±3%) [W]:	512	517	523	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-
Series Fuse Rating [A]	35	35	35	-	-	-	-

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-700-NC-DG	CHN-705-NC-DG	CHN-710-NC-DG	CHN-715-NC-DG	CHN-720-NC-DG	CHN-725-NC-DG	CHN-730-NC-DG
Open-circuit voltage (±3%) [V]:	47.90	48.10	48.30	48.50	48.70	48.90	49.10
Short-circuit current(±3%) [A]:	18.49	18.54	18.59	18.64	18.69	18.74	18.79
Voltage at max. power [V]:	40.00	40.20	40.40	40.60	40.80	41.00	41.20
Current at max. power [A]:	17.51	17.54	17.58	17.62	17.65	17.69	17.72
Max. power(±3%) [W]:	700	705	710	715	720	725	730
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	48.04	48.24	48.44	48.65	48.85	49.05	49.25
Short-circuit current(±3%) [A]:	20.34	20.39	20.45	20.50	20.56	20.61	20.67

Data form for critical components and material information

±3%) [A]:							
Voltage at max. power [V]:	40.00	40.20	40.40	40.60	40.80	41.00	41.20
Current at max. power [A]:	19.26	19.29	19.34	19.38	19.42	19.46	19.49
Max. power(±3%) [W]:	770	776	781	787	792	798	803
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-635-ND-DG	CHN-640-ND-DG	CHN-645-ND-DG	CHN-650-ND-DG	CHN-655-ND-DG	CHN-660-ND-DG	CHN-665-ND-DG
Open-circuit voltage (±3%) [V]:	43.50	43.70	43.90	44.10	44.30	44.50	44.70
Short-circuit current(±3%) [A]:	18.46	18.51	18.56	18.61	18.66	18.71	18.76
Voltage at max. power [V]:	36.30	36.50	36.70	36.90	37.10	37.30	37.50
Current at max. power [A]:	17.50	17.54	17.58	17.62	17.66	17.70	17.74
Max. power(±3%) [W]:	635	640	645	650	655	660	665
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	43.63	43.83	44.03	44.23	44.43	44.63	44.83
Short-circuit current(±3%) [A]:	20.31	20.36	20.42	20.47	20.53	20.58	20.64
Voltage at max. power [V]:	36.30	36.50	36.70	36.90	37.10	37.30	37.50
Current at max. power [A]:	19.25	19.29	19.34	19.38	19.43	19.47	19.51
Max. power(±3%) [W]:	699	704	710	715	721	726	732
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	35	35	35	35	35	35	35

Data form for critical components and material information

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-585-NE-DG	CHN-590-NE-DG	CHN-595-NE-DG	CHN-600-NE-DG	CHN-605-NE-DG	CHN-610-NE-DG	-
Open-circuit voltage (±3%) [V]:	40.20	40.40	40.60	40.80	41.00	41.20	-
Short-circuit current(±3%) [A]:	18.31	18.36	18.41	18.46	18.51	18.56	-
Voltage at max. power [V]:	33.60	33.80	34.00	34.20	34.40	34.60	-
Current at max. power [A]:	17.41	17.46	17.50	17.55	17.59	17.63	-
Max. power(±3%) [W]:	585	590	595	600	605	610	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	40.32	40.52	40.72	40.92	41.12	41.32	-
Short-circuit current(±3%) [A]:	20.14	20.20	20.25	20.31	20.36	20.42	-
Voltage at max. power [V]:	33.60	33.80	34.00	34.20	34.40	34.60	-
Current at max. power [A]:	19.15	19.21	19.25	19.31	19.35	19.39	-
Max. power(±3%) [W]:	644	649	655	660	666	671	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	-
Series Fuse Rating [A]	35	35	35	35	35	35	-

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-530-NG-DG	CHN-535-NG-DG	CHN-540-NG-DG	CHN-545-NG-DG	CHN-550-NG-DG	CHN-555-NG-DG	-
Open-circuit voltage (±3%) [V]:	36.40	36.60	36.80	37.00	37.20	37.40	-
Short-circuit current(±3%) [A]:	18.21	18.26	18.31	18.36	18.41	18.46	-
Voltage at max. power [V]:	30.40	30.60	30.80	31.00	31.20	31.40	-

Data form for critical components and material information

Current at max. power [A]:	17.43	17.48	17.53	17.58	17.63	17.68	-
Max. power(±3%) [W]:	530	535	540	545	550	555	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	36.51	36.71	36.91	37.11	37.31	37.51	-
Short-circuit current(±3%) [A]:	20.03	20.09	20.14	20.20	20.25	20.31	-
Voltage at max. power [V]:	30.40	30.60	30.80	31.00	31.20	31.40	-
Current at max. power [A]:	19.18	19.23	19.29	19.34	19.39	19.44	-
Max. power(±3%) [W]:	583	589	594	600	605	611	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	-
Series Fuse Rating [A]	35	35	35	35	35	35	-

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-425-NI-DG	CHN-430-NI-DG	CHN-435-NI-DG	CHN-440-NI-DG	CHN-445-NI-DG	-	-
Open-circuit voltage (±3%) [V]:	29.40	29.60	29.80	30.00	30.20	-	-
Short-circuit current(±3%) [A]:	18.21	18.26	18.31	18.36	18.41	-	-
Voltage at max. power [V]:	24.60	24.80	25.00	25.20	25.40	-	-
Current at max. power [A]:	17.28	17.34	17.40	17.46	17.52	-	-
Max. power(±3%) [W]:	425	430	435	440	445	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	29.49	29.69	29.89	30.09	30.29	-	-
Short-circuit current(±3%) [A]:	20.03	20.09	20.14	20.20	20.25	-	-
Voltage at max. power [V]:	24.60	24.80	25.00	25.20	25.40	-	-

Data form for critical components and material information

Current at max. power [A]:	19.00	19.07	19.14	19.21	19.27	-	-
Max. power(±3%) [W]:	468	473	479	484	490	-	-
Maximum system voltage [V]	1500	1500	1500	1500	1500	-	-
Series Fuse Rating [A]	35	35	35	35	35	-	-

Product Electrical Ratings at STC: (182.2x96mm TOPCON cell)							
Module	CHN-595-NEB-DG	CHN-600-NEB-DG	CHN-605-NEB-DG	CHN-610-NEB-DG	CHN-615-NEB-DG	CHN-620-NEB-DG	CHN-625-NEB-DG
Open-circuit voltage (±3%) [V]:	51.60	51.80	52.00	52.20	52.40	52.60	52.80
Short-circuit current(±3%) [A]:	14.48	14.54	14.60	14.66	14.72	14.78	14.84
Voltage at max. power [V]:	43.80	44.00	44.20	44.40	44.60	44.80	45.00
Current at max. power [A]:	13.59	13.64	13.69	13.74	13.79	13.84	13.89
Max. power(±3%) [W]:	595	600	605	610	615	620	625
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	51.75	51.96	52.16	52.36	52.56	52.76	52.96
Short-circuit current(±3%) [A]:	15.93	15.99	16.06	16.13	16.19	16.26	16.32
Voltage at max. power [V]:	43.80	44.00	44.20	44.40	44.60	44.80	45.00
Current at max. power [A]:	14.95	15.00	15.06	15.11	15.17	15.22	15.28
Max. power(±3%) [W]:	655	660	666	671	677	682	688
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (182.2x96mm TOPCON cell)							

Data form for critical components and material information

Module	CHN-490-NED-DG	CHN-495-NED-DG	CHN-500-NED-DG	CHN-505-NED-DG	CHN-510-NED-DG	CHN-515-NED-DG	CHN-520-NED-DG
Open-circuit voltage ($\pm 3\%$) [V]:	42.80	43.00	43.20	43.40	43.60	43.80	44.00
Short-circuit current($\pm 3\%$) [A]:	14.37	14.44	14.51	14.58	14.65	14.72	14.79
Voltage at max. power [V]:	36.20	36.40	36.60	36.80	37.00	37.20	37.40
Current at max. power [A]:	13.55	13.61	13.67	13.73	13.79	13.85	13.91
Max. power($\pm 3\%$) [W]:	490	495	500	505	510	515	520
Product Electrical Ratings at BNPI:							
Open-circuit voltage ($\pm 3\%$) [V]:	42.93	43.13	43.33	43.53	43.73	43.93	44.13
Short-circuit current($\pm 3\%$) [A]:	15.81	15.88	15.96	16.04	16.12	16.19	16.27
Voltage at max. power [V]:	36.20	36.40	36.60	36.80	37.00	37.20	37.40
Current at max. power [A]:	14.91	14.97	15.04	15.10	15.17	15.24	15.30
Max. power($\pm 3\%$) [W]:	539	545	550	556	561	567	572
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30
Product Electrical Ratings at STC: (182.2x96mm TOPCON cell)							
Module	CHN-440-NEF-DG	CHN-445-NEF-DG	CHN-450-NEF-DG	CHN-455-NEF-DG	CHN-460-NEF-DG	CHN-465-NEF-DG	CHN-470-NEF-DG
Open-circuit voltage ($\pm 3\%$) [V]:	38.80	39.00	39.20	39.40	39.60	39.80	40.00
Short-circuit current($\pm 3\%$) [A]:	14.20	14.25	14.30	14.35	14.40	14.45	14.52
Voltage at max. power [V]:	32.10	32.30	32.50	32.70	32.90	33.10	33.30
Current at max. power [A]:	13.70	13.78	13.86	13.94	14.00	14.06	14.12
Max. power(	440	445	450	455	460	465	470

Data form for critical components and material information

±3%) [W]:							
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	38.92	39.12	39.32	39.52	39.72	39.92	40.12
Short-circuit current(±3%) [A]:	15.62	15.68	15.73	15.79	15.84	15.90	15.97
Voltage at max. power [V]:	32.10	32.30	32.50	32.70	32.90	33.10	33.30
Current at max. power [A]:	15.07	15.16	15.25	15.33	15.40	15.47	15.53
Max. power(±3%) [W]:	484	490	495	501	506	512	517
Maximum system voltage [V]	1500	1500	1500	1500	1500	1500	1500
Series Fuse Rating [A]	30	30	30	30	30	30	30

Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-735-NC-DG	CHN-740-NC-DG	CHN-745-NC-DG	CHN-750-NC-DG	-	-	-
Open-circuit voltage (±3%) [V]:	49.30	49.50	49.70	49.90	-	-	-
Short-circuit current(±3%) [A]:	18.84	18.89	18.94	18.99	-	-	-
Voltage at max. power [V]:	41.40	41.60	41.80	42.00	-	-	-
Current at max. power [A]:	17.76	17.79	17.83	17.86	-	-	-
Max. power(±3%) [W]:	735	740	745	750	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	49.45	49.65	49.85	50.05	-	-	-
Short-circuit current(±3%) [A]:	20.73	20.79	20.84	20.90	-	-	-
Voltage at max. power [V]:	41.40	41.60	41.80	42.00	-	-	-
Current at max. power [A]:	19.53	19.57	19.61	19.64	-	-	-

Data form for critical components and material information

Max. power(±3%) [W]:	809	814	820	825	-	-	-
Maximum system voltage [V]	1500	1500	1500	1500	-	-	-
Series Fuse Rating [A]	35	35	35	35	-	-	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-670- ND-DG	CHN-675- ND-DG	CHN-680- ND-DG	-	-	-	-
Open-circuit voltage (±3%) [V]:	44.90	45.10	45.30	-	-	-	-
Short-circuit current(±3%) [A]:	18.81	18.86	18.91	-	-	-	-
Voltage at max. power [V]:	37.70	37.90	38.10	-	-	-	-
Current at max. power [A]:	17.78	17.82	17.86	-	-	-	-
Max. power(±3%) [W]:	670	675	680	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	44.83	45.03	45.23	-	-	-	-
Short-circuit current(±3%) [A]:	20.64	20.69	20.74	-	-	-	-
Voltage at max. power [V]:	37.70	37.90	38.10	-	-	-	-
Current at max. power [A]:	19.55	19.59	19.64	-	-	-	-
Max. power(±3%) [W]:	737	743	748	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-
Series Fuse Rating [A]	35	35	35	-	-	-	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-615- NE-DG	CHN-620- NE-DG	CHN-625- NE-DG	-	-	-	-
Open-circuit voltage (	40.40	40.60	40.80	-	-	-	-

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	18.61	18.66	18.71	-	-	-	-
Voltage at max. power [V]:	34.80	35.00	35.20	-	-	-	-
Current at max. power [A]:	17.67	17.71	17.75	-	-	-	-
Max. power(±3%) [W]:	615	620	625	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	41.52	41.72	41.92	-	-	-	-
Short-circuit current(±3%) [A]:	20.47	20.52	20.57	-	-	-	-
Voltage at max. power [V]:	34.80	35.00	35.20	-	-	-	-
Current at max. power [A]:	19.44	19.48	19.55	-	-	-	-
Max. power(±3%) [W]:	677	682	688	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-
Series Fuse Rating [A]	35	35	35	-	-	-	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-560-NG-DG	CHN-565-NG-DG	CHN-570-NG-DG	-	-	-	-
Open-circuit voltage (±3%) [V]:	37.60	37.80	38.00	-	-	-	-
Short-circuit current(±3%) [A]:	18.51	18.56	18.61	-	-	-	-
Voltage at max. power [V]:	31.60	31.80	32.00	-	-	-	-
Current at max. power [A]:	17.73	17.78	17.83	-	-	-	-
Max. power(±3%) [W]:	560	565	570	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (	37.71	37.91	38.11	-	-	-	-

Data form for critical components and material information

±3%) [V]:							
Short-circuit current(±3%) [A]:	20.36	20.40	20.5	-	-	-	-
Voltage at max. power [V]:	31.60	31.80	32.00	-	-	-	-
Current at max. power [A]:	19.50	19.55	19.60	-	-	-	-
Max. power(±3%) [W]:	616	622	627	-	-	-	-
Maximum system voltage [V]	1500	1500	1500	-	-	-	-
Series Fuse Rating [A]	35	35	35	-	-	-	-
Product Electrical Ratings at STC: (210x105mm TOPCON cell)							
Module	CHN-450-NI-DG	CHN-455-NI-DG	-	-	-	-	-
Open-circuit voltage (±3%) [V]:	30.40	30.60	-	-	-	-	-
Short-circuit current(±3%) [A]:	18.46	18.51	-	-	-	-	-
Voltage at max. power [V]:	25.60	25.80	-	-	-	-	-
Current at max. power [A]:	17.58	17.64	-	-	-	-	-
Max. power(±3%) [W]:	450	455	-	-	-	-	-
Product Electrical Ratings at BNPI:							
Open-circuit voltage (±3%) [V]:	30.49	30.69	-	-	-	-	-
Short-circuit current(±3%) [A]:	20.30	20.35	-	-	-	-	-
Voltage at max. power [V]:	25.60	25.80	-	-	-	-	-
Current at max. power [A]:	19.34	19.40	-	-	-	-	-
Max. power(±3%) [W]:	495	501	-	-	-	-	-
Maximum system voltage [V]	1500	1500	-	-	-	-	-

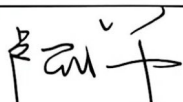
Form

Data form for critical components and material information



Series Fuse Rating [A]	35	35	-	-	-	-	-
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Signature of the Certification Holder:

Name, seal and signature of Certificate Holder:	
Date:	2026-09-10

