Form

Data form for critical components and material information

Applicant name and address ..... :	Shinson Technology Co.,Ltd No. 502, Building 3, Zone 5, Waitan No. 1 Garden, Hutang Town, Wujin District 213161 Changzhou City, Jiangsu PEOPLE'S REPUBLIC OF CHINA CBW: 122610
Manufacturer name and address..... :	Shinson Technology Co.,Ltd No. 502, Building 3, Zone 5, Waitan No. 1 Garden, Hutang Town, Wujin District 213161 Changzhou City, Jiangsu PEOPLE'S REPUBLIC OF CHINA CBW: 122610
Name and address of factory / factories..... :	Yancheng Runda PV Co.,Ltd. No.199 Yanqiao Road, Tanghe Street, Jianhu County, 224799, Yancheng, Jiangsu Province, P.R.China Production Facility Code: 116659
Project-No./Report-No. ..... :	701262622101-00
Test item description..... :	See the corresponding test report
Model/Type reference ..... :	(1/2 cut of N-type 18X x 9X (mm) series TOPCon cell:) p) RSxxxS8-156GANT (xxx=595-655 in steps of 5W) a) RSxxxS8-144GANT (xxx=600-620 in steps of 5W) b) RSxxxS8-132GANT (xxx=550-570 in steps of 5W) c) RSxxxS8-120GANT (xxx=500-520 in steps of 5W) d) RSxxxS8-108GANT (xxx=450-465 in steps of 5W) i) RSxxxS8-96GANT (xxx=365-410 in steps of 5W) j) RSxxxS8-84GANT (xxx=320-360 in steps of 5W) k) RSxxxS8-72GANT (xxx=275-310 in steps of 5W) (1/2 cut of N-type 182*210 mm TOPCon cell) e) RSxxxS8R-132GANT (xxx=595-640 in steps of 5W) f) RSxxxS8R-120GANT (xxx=540-580 in steps of 5W) g) RSxxxS8R-108GANT (xxx=485-525 in steps of 5W) h) RSxxxS8R-96GANT (xxx=430-465 in steps of 5W) (1/2 cut of N-type 210*210 mm TOPCon cell) l) RSxxxS9-132GANT (xxx=675-730 in steps of 5W) m) RSxxxS9-120GANT (xxx=615-665 in steps of 5W) n) RSxxxS9-108GANT (xxx=555-600 in steps of 5W) o) RSxxxS9-96GANT (xxx=490-530 in steps of 5W) Black series:

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	(1/2 cut of N-type 18X x 9X (mm) series TOPCon cell:) p') RSxxxS8B-156GANT (xxx=595-655 in steps of 5W) a') RSxxxS8B-144GANT (xxx=600-620 in steps of 5W) b') RSxxxS8B-132GANT (xxx=550-570 in steps of 5W) c') RSxxxS8B-120GANT (xxx=500-520 in steps of 5W) d') RSxxxS8B-108GANT (xxx=450-465 in steps of 5W) i') RSxxxS8B-96GANT (xxx=365-410 in steps of 5W) j') RSxxxS8B-84GANT (xxx=320-360 in steps of 5W) k') RSxxxS8B-72GANT (xxx=275-310 in steps of 5W) (1/2 cut of N-type 182*210 mm TOPCon cell) e') RSxxxS8RB-132GANT (xxx=595-640 in steps of 5W) f') RSxxxS8RB-120GANT (xxx=540-580 in steps of 5W) g') RSxxxS8RB-108GANT (xxx=485-525 in steps of 5W) h') RSxxxS8RB-96GANT (xxx=430-465 in steps of 5W) (1/2 cut of N-type 210*210 mm TOPCon cell) l') RSxxxS9B-132GANT (xxx=675-730 in steps of 5W) m') RSxxxS9B-120GANT (xxx=615-665 in steps of 5W) n') RSxxxS9B-108GANT (xxx=555-600 in steps of 5W) o') RSxxxS9B-96GANT (xxx=490-530 in steps of 5W) xxx is standing for rated output power at STC
Device type ..... :	Mono-crystalline Silicon Photovoltaic (PV) Module

Co-license types:		
SxxxM78NT3BF	(identical to)	RSxxxS8-156GANT (xxx=595-655 in steps of 5W)
SxxxM72NT3BF	(identical to)	RSxxxS8-144GANT (xxx=600-620 in steps of 5W)
SxxxM66P4BF	(identical to)	RSxxxS8-132GANT (xxx=550-570 in steps of 5W)
SxxxM60P4BF	(identical to)	RSxxxS8-120GANT (xxx=500-520 in steps of 5W)
SxxxM54NT3BF	(identical to)	RSxxxS8-108GANT (xxx=450-465 in steps of 5W)
SxxxM48NT3BF	(identical to)	RSxxxS8-96GANT (xxx=365-410 in steps of 5W)
SxxxM42NT3BF	(identical to)	RSxxxS8-84GANT (xxx=320-360 in steps of 5W)
SxxxM36NT3BF	(identical to)	RSxxxS8-72GANT (xxx=275-310 in steps of 5W)
SxxxM66NF3BF	(identical to)	RSxxxS8R-132GANT (xxx=595-640 in steps of 5W)
SxxxM60NT3BF	(identical to)	RSxxxS8R-120GANT (xxx=540-580 in steps of 5W)
SxxxM54NT4BF	(identical to)	RSxxxS8R-108GANT (xxx=485-525 in steps of 5W)
SxxxM48NT4BF	(identical to)	RSxxxS8R-96GANT (xxx=430-465 in steps of 5W)
SxxxM66NT4BF	(identical to)	RSxxxS9-132GANT (xxx=675-730 in steps of 5W)
SxxxM60NT4BF	(identical to)	RSxxxS9-120GANT (xxx=615-665 in steps of 5W)

SxxxM72P3BF	(identical to)	RSxxxS9-108GANT (xxx=555-600 in steps of 5W)
SxxxM48NT2BF	(identical to)	RSxxxS9-96GANT (xxx=490-530 in steps of 5W)
Black series:		Black series:
SxxxM78NT3BFB	(identical to)	RSxxxS8B-156GANT (xxx=595-655 in steps of 5W)
SxxxM72NT3BFB	(identical to)	RSxxxS8B-144GANT (xxx=600-620 in steps of 5W)
SxxxM66P4BFB	(identical to)	RSxxxS8B-132GANT (xxx=550-570 in steps of 5W)
SxxxM60P4BFB	(identical to)	RSxxxS8B-120GANT (xxx=500-520 in steps of 5W)
SxxxM54NT3BFB	(identical to)	RSxxxS8B-108GANT (xxx=450-465 in steps of 5W)
SxxxM48NT3BFB	(identical to)	RSxxxS8B-96GANT (xxx=365-410 in steps of 5W)
SxxxM42NT3BFB	(identical to)	RSxxxS8B-84GANT (xxx=320-360 in steps of 5W)
SxxxM36NT3BFB	(identical to)	RSxxxS8B-72GANT (xxx=275-310 in steps of 5W)
SxxxM66NF3BFB	(identical to)	RSxxxS8RB-132GANT (xxx=595-640 in steps of 5W)
SxxxM60NT3BFB	(identical to)	RSxxxS8RB-120GANT (xxx=540-580 in steps of 5W)
SxxxM54NT4BFB	(identical to)	RSxxxS8RB-108GANT (xxx=485-525 in steps of 5W)
SxxxM48NT4BFB	(identical to)	RSxxxS8RB-96GANT (xxx=430-465 in steps of 5W)
SxxxM66NT4BFB	(identical to)	RSxxxS9B-132GANT (xxx=675-730 in steps of 5W)
SxxxM60NT4BFB	(identical to)	RSxxxS9B-120GANT (xxx=615-665 in steps of 5W)
SxxxM72P3BFB	(identical to)	RSxxxS9B-108GANT (xxx=555-600 in steps of 5W)
SxxxM48NT2BFB	(identical to)	RSxxxS9B-96GANT (xxx=490-530 in steps of 5W)
xxx is standing for rated output power at STC		

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 Module [T_{98}]max [°C] =70
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/a') 2382 x 1134 x 28/30/33 mm b/b') 2182 x 1134 x 28/30/33 mm c/c') 1988 x 1134 x 28/30/33 mm d/d') 1800 x 1134 x 28/30/33 mm e/e') 2382 x 1134 x 28/30/33/35 mm f/f') 2172 x 1134 x 28/30/33/35 mm g/g') 1962 x 1134 x 28/30/33/35 mm or 1961 x 1134 x 28/30/33/35 mm or 1960 x 1134 x 28/30/33/35 mm h/h') 1762 x 1134 x 28/30/33/35 mm i/i') 2278*1134*35/30 mm or 2333*1134*30/35 mm or 2382*1134*28/30/33 mm j/j'/k/k') 2278*1134*35/33/30/28 mm l/l') 2384*1303*35/33 mm m/m') 2172/2196*1303*35/33/30 mm n/n') 1962/1980*1303*35/33/30 mm o/o') 1754/1762/1770*1303*35/33/30 mm p/p') 2465*1134*35/30 mm
Mass of equipment (kg) ..... :	a/a') 33.5 kg (approx) b/b') 30.5 kg (approx) c/c') 28 kg (approx) d/d') 25 kg (approx) e/e') 34.5 kg (approx) f/f') 32 kg (approx) g/g') 30 kg (approx) h/h') 28 kg (approx) i/i'/j/j'/k/k') 33.5 kg (approx) l/l') 38 kg (approx) m/m') 35 kg (approx) n/n') 31.5 kg (approx) o/o') 28 kg (approx) p/p') 34.6 kg (approx)
Data communication ports: ☒ N/A	
Wired ports..... :	☒N/A ☐USB ☐LAN ☐DALI ☐other:

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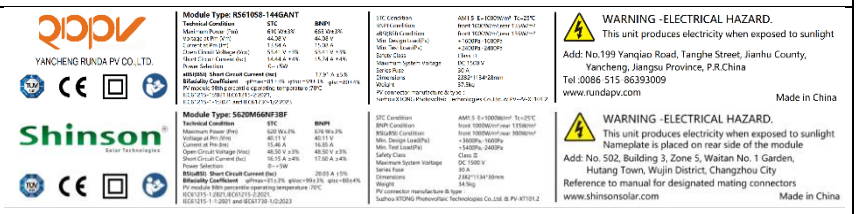
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Wireless ports ..... :	☒N/A ☐Wifi ☐Bluetooth ☐NFC ☐4G/LTE ☐ 5G ☐Other:
Data Storage/ Processing ..... :	☒N/A ☐Local ☐Cloud

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:	
Description of model differences:	See the corresponding test report
General information / Intended use:	See the corresponding test report
Protective earth connection:	N/A
Drawing(s) / Picture(s):	See the corresponding test report

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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	☒

BOM	Superstrate	Encapsulant	Substrate	frame	Fire safety class
1	China National Building Materials (HeFei) New Energy Resources CO.,LTD Type: AR coating tempered glass Thickness: 3.2 mm	Hangzhou First Applied Material Co., Ltd Model: EP304(Front side) Material: EPE Thickness: 0.50±0.10mm Model: F406PS (Rear side) Material: EVA Thickness: 0.50±0.10mm	China National Building Materials (HeFei) New Energy Resources CO.,LTD Type: semi-tempered perforated glass Thickness: 2.0 mm	Zhang Jia Gang Han Long New Energy Technology Co.,Ltd Anodized aluminum alloy, 6005-T6	Class A

Frame:

Framed	☒
Frameless	☐

Front/Rear cover bonding classification:

Rigid/Flexible	☐
Rigid/Rigid	☒
Flexible/Flexible	☐

Designed mechanical load and safety factor:

Positive: 1600Pa,1.5 for 1.6mm glass,
3600Pa,1.5 for 2.0mm glass
Negative: 1600Pa,1.5

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Serial No.bar code:

The barcode consists of a fixed 2-letter prefix and 13 characters, as follows:

S L 25 001 YC 000001

① ② ③ ④ ⑤ ⑥

①Cell type — This letter indicates monocrystalline silicon solar cells (1/2 cut);

②Product series — This letter indicates the cell size and quantity;

③Production year — Example '25' for the year 2025, '26' for 2026, and so on;

④Production Order Number— Example 001,002 and so on;

⑤Production base —YC indicates self-produced at theYancheng base，

If a single order has more than one model version, it can be replaced with 01, 02 .... to differentiate the production.

⑥ Module serial number — Indicates the serial number within the module, ranging from 000001 to 999999.

Serial No. code bar of the co-license is the same as the main certificate.

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Critical components and material information:

Kind of component / Bauteil	Manufacturer / Hersteller	Mechanical, electrical and chemical specification / Mechanische, elektrische und chemische Spezifikation	Test report and/or mark from / Prüfbericht und /oder -zeichen von
1. Solar Cell 1	Jiangsu Runda New Energy Technology Co., Ltd.	Type: RTCN182261B16 Mono-Si, N type, 16 busbars Cell dimensions: L x W: 182.2 x 95.8 ±0.25 (mm) Cell thickness: 140 ± 14 (µm) Cell area: 174.5 cm² used with encapsulant 1	Tested with appliance
Solar Cell 2	Jiangsu Runda New Energy Technology Co., Ltd.	Type: RTCN182248B16 Mono-Si, N type, 16 busbars Cell dimensions: L x W: 182.2 x 93.375 ±0.25 (mm) Cell thickness: 140 ± 14 (µm) Cell area: 170.1 cm² used with encapsulant 1	Tested with appliance
Solar Cell 3	Jiangsu Runda New Energy Technology Co., Ltd.	Type: RTCN182245B16 Mono-Si, N type, 16 busbars Cell dimensions: L x W: 182.2 x 91.875 ±0.25 (mm) Cell thickness: 140 ± 14 (µm) Cell area: 167.4 cm² used with encapsulant 1	Tested with appliance
Solar Cell 4	Jiangsu Runda New Energy Technology Co., Ltd.	Type: RTCN182272B16 Mono-Si, N type, 16 busbars Cell dimensions: L x W: 182 x 105 ±0.25 (mm) Cell thickness: 140 ± 14 (µm) Cell area: 190.3 cm² used with encapsulant 1	Tested with appliance
Solar Cell 5	Jiangsu Runda New Energy Technology Co., Ltd.	Type: RTCN210295B18 Mono-Si, N type, 18 busbars Cell dimensions: L x W: 210 x 105 ±0.5 (mm) Cell thickness: 130 ± 13 (µm) Cell area: 220.5 cm²	Tested with appliance
Solar Cell 6	YIBIN YINGFA DEYAO TECHNOLOGY CO.,LTD	Type: G12R-A-16BB Mono-Si, N type, 16 busbars Cell dimensions: L x W: 182.3 x 105 ±0.5 (mm) Cell thickness: 130 ± 13 (µm) Cell area: 191.4 cm² used with encapsulant 2	Tested with appliance
2. Superstrate 1	China National Building Materials (HeFei) New	Type: AR coating tempered glass Thickness: 1.6 mm or 3.2 mm	Tested with appliance

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	Energy Resources CO.,LTD		
Superstrate 2	Tianjin seed glass Co.,LTD	Type: AR-coating semi-tempered glass Thickness: 2.0 mm	Tested with appliance
3. Substrate 1	China National Building Materials (HeFei) New Energy Resources CO.,LTD	Type: semi-tempered perforated glass Thickness: 1.6 mm or 2.0 mm	Tested with appliance
Substrate 2	Tianjin seed glass Co.,LTD	Type: semi-tempered perforated glass with white mesh Thickness: 2.0 mm	Tested with appliance
4. Encapsulant 1	Hangzhou First Applied Material Co., Ltd	Model: EP304(Front side) Material: EPE Thickness: 0.50±0.10mm or 0.65±0.10mm / Model: F406PS (Rear side) Material: EVA Thickness: 0.50±0.10mm	Tested with appliance
Encapsulant 2	Suzhou Yisheng Optical Materials Co.,Ltd.	Model: EP801(Front side) Material: EPE Thickness: 0.45~0.65mm Model: E701 (Rear side) Material: EVA Thickness: 0.45~0.65mm	Tested with appliance
5. Junction box 1	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	Type: PV-XT1609Nxyz Rated 1500 V DC	TÜV SÜD 70.407.19.220.01-06A4
Cable 1	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	Type: 62930 IEC 131 1×4mm2, Rated 1500V DC	TÜV Rheinland R50453577
Cable 2	Wuxi Xinhongye Wire &Cable Co, Ltd.	H1Z2Z2-K & 62930 IEC 131 1x4mm2,1x6mm2,-40℃~+90℃	TÜV SÜD B101175 0001 Rev.00
Connector 1	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	PV-XT101.1;PV-XT101.2;XT2, system voltage:1500V; rated current: 41A for PV-XT101.1;PV-XT101.2(with 1x4,0mm2); 45A for XT2 (with 1x4,0mm2); 46A for PV-XT101.1;PV-XT101.2 (with 1x6,0mm2); 53A for XT2 (with 1x6,0mm2)	TÜV SÜD B 076061 0016 Rev. 01
Connector 2	Stäubli Electrical Connectors AG	PV-KST4/xy-UR;PV-KBT4/xy-UR; system voltage:1000V;rated current: 39A	TÜV Rheinland R60127190
Connector 3	Stäubli Electrical Connectors AG	PV-KST4-EVO 2/xy_UR, PV-KBT4-EVO 2/xy_UR, 1500VDC,45A(4mm2), 53A(6mm2) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy, 1500VDC,45A(4mm2), 53A(6mm2)	TÜV Rheinland R60127169

Bypass diode 1	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050,IF(AV) =30A, VRRM =50V,Tj=200℃, PV-XT1609Nxyz(x=3,y=2,z=4),20A	Tested with appliance
Bypass diode 2	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050M,IF(AV) =30A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=2 or 4;y=2; z=5),20A	Tested with appliance
Bypass diode 3	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050A,IF(AV) =30A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=3; y=3;z=7),25A,1x 152mil	Tested with appliance
Bypass diode 4	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050M-B, IF(AV) =30A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=2 or 4; y=2; z=8),20A,1x120mil	Tested with appliance
Bypass diode 5	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4050M-A,IF(AV) =40A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=2 or 4; y=3; z=9),25A,1x180mil	Tested with appliance
Bypass diode 6	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4050M-B,IF(AV) =40A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=2 or 4; y=3; z=10),25A,1x180mil	Tested with appliance
Bypass diode 7	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4050M-B(or TM3045-20),IF(AV) =40A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=2 or 4;y=3;z=10), 25A,1x152mil	Tested with appliance
Bypass diode 8	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4550M-A,IF(AV) =45A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=2 or 4;y=4; z=11),30A, 2x150mil	Tested with appliance
Bypass diode 9	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4550M-B(or TM3045-25),IF(AV) =45A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=2 or 4; y=4; z=12), 30A, 2x150mil	Tested with appliance
Bypass diode 10	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT5050M-A,IF(AV) =50A, VRRM =50V,Tj=200℃, PV-XT1609Nxyz (x=2 or 4; y=5; z=13),35A, 2x180mil	Tested with appliance
Bypass diode 11	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050M-17(or TM3045-18), IF(AV) =30A, VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4;y=1;z=14),17A, 1x130mil	Tested with appliance
Bypass diode 12	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050M-B(or TM3045-18), IF(AV) =30A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=4; y=2; z=8),20A, 1x 130mil	Tested with appliance
Bypass diode 13	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4050M-B(or TM3045-25),IF(AV) =40A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4; y=3;z=10),25A, 2x130mil	Tested with appliance
Bypass diode 14	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4550M-B(or TM3045-30),IF(AV) =45A,VRRM =50V, Tj=200℃,PV-	Tested with appliance

		XT1609Nxyz (x=4; y=4; z=12),30A, 2x165mil	
Bypass diode 15	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT5050M-B,IF(AV) =50A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=5; y=5; z=15),35A, 2x165mil	Tested with appliance
Bypass diode 16	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT5050M-B,IF(AV) =50A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4,6 or 7; y=5; z=15),35A, 2x165mil	Tested with appliance
Bypass diode 17	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT3050M-B, IF(AV) =30A,VRRM =50V,Tj=200℃,PV-XT1609Nxyz (x=4,6 or 7; y=2; z=16),20A,1x 100mil	Tested with appliance
Bypass diode 18	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4050M-B,IF(AV) =40A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4; y=3;z=17),25A,1x120mil	Tested with appliance
Bypass diode 19	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4050M-B,IF(AV) =40A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4,6 or 7; y=3;z=18),25A,1x130mil	Tested with appliance
Bypass diode 20	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4550M-B,IF(AV) =45A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4; y=4; z=19),30A, 1x165mil	Tested with appliance
Bypass diode 21	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT5050M-B,IF(AV) =50A,VRRM =50V, Tj=200℃,PV-XT1609Nxyz (x=4; y=6; z=20),32A,1x180mil	Tested with appliance
Bypass diode 22	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT4550M-B,IF(AV) =45A,VRRM =50V,Tj=200℃, PV-XT1609Nxyz (x=4,6 or 7; y=4; z=21),30A,2x130mil	Tested with appliance
Bypass diode 23	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.	XT5050M-B,IF(AV)=50A,VRRM=50V, Tj=200℃,PV-XT1609Nxyz(x=4; y=5; z=22),35A,2x165mil	Tested with appliance
Adhesive 1	Jolywood (Jiangsu) Sunwatt Co.,Ltd.	Type: JW-3705 Color: white or black	UL(E539098)
Potting material 1	Jolywood (Jiangsu) Sunwatt Co.,Ltd.	Type: JW 3707 Color: white or black	UL(E539098)
6. Junction box 2	NINGBO GZX PV TECHNOLOGY CO., LTD	Type: PV-GZX306, PV-GZX307, Rated 1500 V DC 20A,24A,25A,30A,35A for PV-GZX306, 20A,25A,30A,35A for PV-GZX307,	TÜV SÜD 70.407.16.140.03-16
Cable 1	NINGBO GZX PV TECHNOLOGY CO., LTD	Type: 62930 IEC 131 1×4mm2, Rated 1500V DC	TÜV SÜD 088393 0020 Rev. 01
Connector 1	NINGBO GZX PV TECHNOLOGY CO., LTD	PV-GZX1500, 1500VDC, 39A, IP68	TÜV SÜD B 088393 0019 Rev. 01
Connector 2	Stäubli Electrical connectors AG	PV-KST4-EVO 2/xy_UR, PV-KBT4-EVO 2/xy_UR, 1500VDC,45A(4mm2),53A(6mm2)	TÜV Rheinland R60127169

		PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy, 1500VDC,45A(4mm2),53A(6mm2)	
Connector 3	Stäubli Electrical connectors AG	PV-KST4/xy_UR,PV_KBT4/xy-UR, 1000VDC,39A(85℃;4mm2&6mm2)	TÜV Rheinland R60127190
Bypass diode 1	NINGBO GZX PV TECHNOLOGY CO., LTD	GF3545, (IF(AV)=35A,VRRM=45V, Tj(MAX)=200℃),Module,1x150mil,20A for PV-GZX306,PV-GZX307(OEM:NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 2	NINGBO GZX PV TECHNOLOGY CO., LTD	GF4545(IF(AV)=45A,VRRM=45V, Tj(MAX)=200℃),Module,1x180mil,24 for PV-GZX306(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 3	NINGBO GZX PV TECHNOLOGY CO., LTD	GF5045,(IF(AV)=50A,VRRM=45V, Tj(MAX)=200℃),Module,2X150mil, 25A for PV-GZX306,PV-GZX307(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 4	NINGBO GZX PV TECHNOLOGY CO., LTD	GF5045E (IF(AV)=50A,VRRM=45V, Tj(MAX)=200℃),Module,1x166mil,25A for PV-GZX306,PV-GZX307 (OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 5	NINGBO GZX PV TECHNOLOGY CO., LTD	GF5545,(IF(AV)=55A,VRRM=45V, Tj(MAX)=200℃),Module,2x166mil,30A for PV-GZX306,PV-GZX307(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 6	NINGBO GZX PV TECHNOLOGY CO., LTD	GF5545E,(IF(AV)=55A,VRRM=45V, Tj(MAX)=200℃),Module,1x180mil,30A for PV-GZX306,PV-GZX307 (OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 7	NINGBO GZX PV TECHNOLOGY CO., LTD	GF6545,(IF(AV)=65A, VRRM=45V, Tj(MAX)=200℃),Module,2x170mil, 35A for PV-GZX306(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	Tested with appliance
Bypass diode 8	PANJIT INTERNATIONAL INC	GF3545(IF(AV)=35A,VRRM=45V, Tj(MAX)=200℃),Module,1X150mil,20A for PV-GZX306	Tested with appliance
Bypass diode 9	PANJIT INTERNATIONAL INC	GF5045,(IF(AV)=50A,RRM=45V, Tj(MAX)=200℃),Module,2X150mil, 25A for PV-GZX306	Tested with appliance
Bypass diode 10	PANJIT INTERNATIONAL INC	GF5545,(IF(AV)=55A, VRRM=45V, Tj(MAX)=200℃),Module,2x166mil, 30A for PV-GZX306	Tested with appliance
Bypass diode 11	Yangzhou Yangjie Electronic Technology Co., Ltd.	GFMK3545(IF(AV)=35A,VRRM=45V, Tj(MAX)=200℃),Module,1X150mil,20Af or PV-GZX306	Tested with appliance

Bypass diode 12	Yangzhou Yangjie Electronic Technology Co., Ltd.	GFMK5045(IF(AV)=50A,VRRM=45V, Tj(MAX)=200℃),Module,2X150mil,25A for PV-GZX306	Tested with appliance
Bypass diode 13	NINGBO GZX PV TECHNOLOGY CO., LTD(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	GM5045(IF(AV)=50A,VRRM=45V, Tj(MAX)=200℃),Module,1X130mil,25A for PV-GZX306	Tested with appliance
Bypass diode 14	NINGBO GZX PV TECHNOLOGY CO., LTD(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	GM5545(IF(AV)=55A,VRRM=45V, Tj(MAX)=200℃),Module,1X180mil,30A for PV-GZX306	Tested with appliance
Bypass diode 15	NINGBO GZX PV TECHNOLOGY CO., LTD(OEM: NanTong GaoXin Science And Technology Development Co.,Ltd)	GF6545,for (IF(AV)=65A,VRRM=45V, Tj(MAX)=200℃),Module,1x210mil,35A PV-GZX307	Tested with appliance
Adhesive 1	Jolywood (Jiangsu) Sunwatt Co.,Ltd.	Type: JW-3705 Color: white	UL(E539098)
Potting material 1	Jolywood (Jiangsu) Sunwatt Co.,Ltd.	Type: JW 3707 Color: white	UL(E539098)
7. Junction box 3	Ningbo huayu Photovoltaic Technology Co.,Ltd.	Type: PV-HY02 Rated 1500 V DC 20A,25A or 30A for PV-HY02	TÜV SÜD 70.407.20.393.01-05
Cable 1	Ningbo huayu Photovoltaic Technology Co.,Ltd.	Type: 62930 IEC 131 1×4mm²,1×6mm², -40℃~+90℃	TÜV SÜD D 111007 0001 Rev. 00
Cable 2	Wuxi Xinhongye Wire& Cable Co.,Ltd	Type: 62930 IEC 131 1×4mm²,1×6mm², -40℃~+90℃	TÜV SÜD B 101175 0001 Rev.00
Cable 3	Ningbo Followray Special Cable Co., Ltd.	Type: 62930 IEC 131 1×4mm²,1×6mm², -40℃~+90℃	TÜV SÜD B 099387 0001 Rev.00
Cable 4	Xinya Electronic Co., Ltd.	Type: 62930 IEC 131 1×4mm²,1×6mm², -40℃~+90℃	TÜV SÜD B 118907 0001 Rev.01
Cable 5	Ningbo Zhiheng Cable Co., Ltd	Type: 62930 IEC 131 1×4mm²,1×6mm², -40℃~+90℃	TÜV SÜD B 107732 0002 Rev.01
Connector 1	Ningbo huayu Photovoltaic Technology Co.,Ltd.	PV-H4, 35A,1500V, IP68	TÜV SÜD B 111007 0003 Rev. 02
Connector 2	Ningbo huayu Photovoltaic Technology Co.,Ltd.	PV-H4S, 41A(4mm²),46A(6mm²),Up to and including 2000VDC, IP68	TÜV SÜD B 111007 0006 Rev. 00
Connector 3	Stäubli Electrical connectors AG	PV-KST4-EVO 2/xy_UR, PV-KBT4-EVO2/xy_UR,1500VDC,45A(4mm2), 53A(6mm2)	TÜV Rheinland R60127169

		PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy,1500VDC,45A(4mm2), 53A(6mm2)	
Bypass diode 1	PAN JIT ELECTRONICS (WUXI) CO.,LTD.	GF3045,IF(AV)=30A, VRRM=45V, Tj(MAX)=200℃,1x150mil,20A,for PV-HY02	Tested with appliance
Bypass diode 2	PAN JIT ELECTRONICS (WUXI) CO.,LTD.	GF3550,IF(AV)=35A, VRRM=50V, Tj(MAX)=200℃,1x165mil,25A,for PV-HY02	Tested with appliance
Bypass diode 3	PAN JIT ELECTRONICS (WUXI) CO.,LTD.	GF5545,IF(AV)=55A, VRRM=45V, Tj(MAX)=200℃,2x165mil,30A,for PV-HY02	Tested with appliance
Bypass diode 4	Ningbo huayu Photovoltaic Technology Co.,Ltd (OEM: PAN JIT ELECTRONICS (WUXI) CO.,LTD.)	HY3050MK,IF(AV)=30A, VRRM=50V, Tj(MAX)=200℃,1x150mil,20A,for PV-HY02	Tested with appliance
Bypass diode 5	Ningbo huayu Photovoltaic Technology Co.,Ltd (OEM: PAN JIT ELECTRONICS (WUXI) CO.,LTD.)	HY4050MK,IF(AV)=40A, VRRM=50V, Tj(MAX)=200℃,1x165mil,25A,for PV-HY02	Tested with appliance
Bypass diode 6	Ningbo huayu Photovoltaic Technology Co.,Ltd (OEM: PAN JIT ELECTRONICS (WUXI) CO.,LTD.)	HY5050MK,IF(AV)=50A, VRRM=50V, Tj(MAX)=200℃,2x165mil,30A,for PV-HY02	Tested with appliance
Bypass diode 7	Hangzhou DMIC Microelectronics Co.,Ltd	GF4045,IF(AV)=40A, VRRM=45V, Tj(MAX)=200℃,1x150mil,20A,for PV-HY02	Tested with appliance
Bypass diode 8	Hangzhou DMIC Microelectronics Co.,Ltd	GF5045,IF(AV)=50A, VRRM=45V, Tj(MAX)=200℃,1x165mil,25A,for PV-HY02	Tested with appliance
Bypass diode 9	Hangzhou DMIC Microelectronics Co.,Ltd	GF6045,IF(AV)=60A, VRRM=45V, Tj(MAX)=200℃,2x165mil,30A,for PV-HY02	Tested with appliance
Bypass diode 10	Hangzhou DMIC Microelectronics Co.,Ltd	HY3050MK,IF(AV)=30A, VRRM=50V, Tj(MAX)=200℃,1x150mil,20A,for PV-HY02	Tested with appliance
Bypass diode 11	Hangzhou DMIC Microelectronics Co.,Ltd	HY4050MK,IF(AV)=40A, VRRM=50V, Tj(MAX)=200℃,1x165mil,25A,for PV-HY02	Tested with appliance
Bypass diode 12	Hangzhou DMIC Microelectronics Co.,Ltd	HY5050MK,IF(AV)=50A, VRRM=50V, Tj(MAX)=200℃,2x165mil,30A,for PV-HY02	Tested with appliance
Potting material 1	TONSAN ADHESIVE, INC.	Type: 5299W-S Color: white or black	Tested with appliance
Potting material 2	Shanghai Huitian New Material Co., Ltd.	Type: TS1533 Color: white or black	Tested with appliance
8. Cell interconnector 1	Wuxi Changliang Photoelectric Technology Co., Ltd.	Cross section: Ø 0.2 mm, Ø 0.22 mm Base material: Cu ≥ 99.97%, Solding material composition: Sn60%Pb40%, coating thickness: 17±5μm	Tested with appliance

Cell interconnector 2	Gansu Sizhuo New Materials Co.,LTD.	Cross section: Ø 0.22 mm, Ø 0.24 mm, Ø 0.26 mm Base material: Cu ≥ 99.97%, Solding material composition: Sn60%Pb40%, coating thickness: 15±3μm	Tested with appliance
Cell interconnector 3	XINYU JOINSUNTECH Co., Ltd.	Cross section: Ø 0.22 mm, Ø 0.24 mm, Ø 0.26 mm Base material: Cu ≥ 99.97%, Solding material composition: Sn60%Pb40%, coating thickness: 15±4μm	Tested with appliance
9. String connector 1	Wuxi Changliang Photoelectric Technology Co., Ltd.	Cross section: 0.25*4 mm, 0.30*6 mm, Base material: Cu ≥ 99.97%, Solding material composition: Sn60%Pb40% coating thickness: 25±5 μm at each side	Tested with appliance
String connector 2	XINYU JOINSUNTECH Co., Ltd.	Cross section: 0.25*4 mm, 0.30*6 mm, Base material: Cu ≥ 99.97%, Solding material composition: Sn60%Pb40% coating thickness: 20±5 μm at each side	Tested with appliance
10. Fluxing agent	ZHE JIANG QLG HOLDINGS CO.,LTD	Type: QL-F501C	Tested with appliance
11. Frame 1	Zhang Jia Gang Han Long New Energy Technology Co.,Ltd. Jiangyin Yuanbo Metal Technology Co.,Ltd. Wuxi Wangfafa Metal Products Co.,Ltd. Jiangyin Yejia Aluminum Co., LTD. Wuxi Veder Solar Technology Co., Ltd.	Anodized aluminum alloy, 6005-T6, Color: silver Cross-section graph: 28*28mm, 30*28mm, 33*35mm, 33mm	Tested with appliance
Frame 2	BACKBONE Material (CHANGSHU)CO.,LTD	Type: B30, Material: Steel frame 30x21mm	Tested with appliance
Frame 3 (combination with adhesive 1)	Jiangsu Worldlight New Material Co., Ltd.	Type: WL-303, Composite frame Color: Dark grey	TÜV SÜD 70.407.22.069.02-00
12. Adhesive 1 (frame)	Jolywood (Jiangsu) Sunwatt Co.,Ltd.	Type: JW-3705 Color: white or black	UL(E539098)
13. Fixing tape	Suzhou Rongzhi Electronic Technology Co.,Ltd.	Type: D60F6-6	Tested with appliance
14. Label	AveryDennison (China) Co.,Ltd	Type: 72826T	Tested with appliance

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Electrical Parameter Table:

	Module type	RS595S8-156GANT / RS595S8B-156GANT	RS600S8-156GANT / RS600S8B-156GANT	RS605S8-156GANT / RS605S8B-156GANT	RS610S8-156GANT / RS610S8B-156GANT	RS615S8-156GANT / RS615S8B-156GANT
STC condition	Pmp [W] /Tolerance	595 ± 3%	600 ± 3%	605 ± 3%	610 ± 3%	615 ± 3%
	Voc [V] /Tolerance	54.41 ± 3%	54.60 ± 3%	54.79 ± 3%	54.98 ± 3%	55.17 ± 3%
	Isc [Adc] /Tolerance	13.91 ± 4%	13.97 ± 4%	14.03 ± 4%	14.09 ± 4%	14.15 ± 4%
	Vmp [V]	45.32	45.49	45.66	45.83	46.00
	Imax [Adc]	13.13	13.19	13.25	13.31	13.37
BNPI condition	Pmp [W] /Tolerance	649 ± 3%	654 ± 3%	659 ± 3%	665 ± 3%	670 ± 3%
	Voc [V] /Tolerance	54.41 ± 3%	54.60 ± 3%	54.79 ± 3%	54.98 ± 3%	55.17 ± 3%
	Isc [Adc] /Tolerance	15.16 ± 4%	15.23 ± 4%	15.29 ± 4%	15.36 ± 4%	15.42 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.25±5%	17.32±5%	17.40±5%	17.47±5%	17.55±5%
bifaciality coefficient	φPmax	81±5%	81±5%	81±5%	81±5%	81±5%
	φVoc	99±5%	99±5%	99±5%	99±5%	99±5%
	φIsc	80±5%	80±5%	80±5%	80±5%	80±5%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS620S8-156GANT / RS620S8B-156GANT	RS625S8-156GANT / RS625S8B-156GANT	RS630S8-156GANT / RS630S8B-156GANT	RS635S8-156GANT / RS635S8B-156GANT	RS640S8-156GANT / RS640S8B-156GANT
STC condition	Pmp [W] /Tolerance	620 ± 3%	625 ± 3%	630± 3%	635± 3%	640± 3%
	Voc [V] /Tolerance	55.36 ± 3%	55.55 ± 3%	55.74± 3%	55.93± 3%	56.12± 3%
	Isc [Adc] /Tolerance	14.21 ± 4%	14.27 ± 4%	14.33± 4%	14.39± 4%	14.45± 4%
	Vmp [V]	46.17	46.33	46.50	46.66	46.82
	Imax [Adc]	13.43	13.49	13.55	13.61	13.67
BNPI condition	Pmp [W] /Tolerance	676 ± 3%	681 ± 3%	687 ± 3%	692± 3%	698 ± 3%
	Voc [V] /Tolerance	55.36 ± 3%	55.55 ± 3%	55.74 ± 3%	55.93 ± 3%	56.12 ± 3%
	Isc [Adc] /Tolerance	15.49 ± 4%	15.55 ± 4%	15.62 ± 4%	15.69 ± 4%	15.75± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.62±5%	17.70±5%	17.77± 5%	17.84± 5%	17.92± 5%
bifaciality coefficient	φPmax	81±5%	81±5%	81±5%	81±5%	81±5%
	φVoc	99±5%	99±5%	99±5%	99±5%	99±5%
	φIsc	80±5%	80±5%	80±5%	80±5%	80±5%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS645S8-156GANT / RS645S8B-156GANT	RS650S8-156GANT / RS650S8B-156GANT	RS655S8-156GANT / RS655S8B-156GANT		
STC condition	Pmp [W] /Tolerance	645 ± 3%	650 ± 3%	655 ± 3%		
	Voc [V] /Tolerance	56.31 ± 3%	56.50 ± 3%	56.69 ± 3%		
	Isc [Adc] /Tolerance	14.51 ± 4%	14.57 ± 4%	14.63 ± 4%		
	Vmp [V]	46.98	47.14	47.30		
	Imax [Adc]	13.73	13.79	13.85		
BNPI condition	Pmp [W] /Tolerance	703 ± 3%	709 ± 3%	714 ± 3%		
	Voc [V] /Tolerance	56.31 ± 3%	56.50 ± 3%	56.69 ± 3%		
	Isc [Adc] /Tolerance	15.82 ± 4%	15.88 ± 4%	15.95 ± 4%		
BSI/aBSI condition	Isc [Adc] /Tolerance	18.00 ± 5%	18.07 ± 5%	18.14 ± 5%		
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%		
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%		
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%		
	Maximum system voltage [V]	1500	1500	1500		
	Maximum Over-Current Protection Rating [A]	30	30	30		

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	Module type	RS600S8-144GANT / RS600S8B-144GANT	RS605S8-144GANT / RS605S8B-144GANT	RS610S8-144GANT / RS610S8B-144GANT	RS615S8-144GANT / RS615S8B-144GANT	RS620S8-144GANT / RS620S8B-144GANT
STC condition	Pmp [W] /Tolerance	600 ± 3%	605 ± 3%	610± 3%	615±3%	620±3%
	Voc [V] /Tolerance	53.01± 3%	53.21± 3%	53.41± 3%	53.61± 3%	53.81 ± 3%
	Isc [Adc] /Tolerance	14.30 ± 4%	14.37 ± 4%	14.44 ± 4%	14.51 ± 4%	14.58 ± 4%
	Vmp [V]	43.80	43.94	44.08	44.21	44.35
	Imax [Adc]	13.70	13.77	13.84	13.91	13.98
BNPI condition	Pmp [W] /Tolerance	654± 3%	659± 3%	665± 3%	670 ± 3%	676± 3%
	Voc [V] /Tolerance	53.01± 3%	53.21± 3%	53.41± 3%	53.61± 3%	53.81± 3%
	Isc [Adc] /Tolerance	15.59± 4%	15.66± 4%	15.74± 4%	15.82 ± 4%	15.89± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.73± 5%	17.82± 5%	17.91± 5%	17.99± 5%	18.08± 5%
bifaciality coefficient	φPmax	81± 3%	81± 3%	81± 3%	81± 3%	81± 3%
	φVoc	99± 3%	99± 3%	99± 3%	99± 3%	99± 3%
	φIsc	80± 4%	80± 4%	80± 4%	80± 4%	80± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS550S8-132GANT / RS550S8B-132GANT	RS555S8-132GANT / RS555S8B-132GANT	RS560S8-132GANT / RS560S8B-132GANT	RS565S8-132GANT / RS565S8B-132GANT	RS570S8-132GANT / RS570S8B-132GANT
STC condition	Pmp [W] /Tolerance	550 ± 3%	555 ± 3%	560 ± 3%	565 ± 3%	570 ± 3%
	Voc [V] /Tolerance	48.61 ± 3%	48.81 ± 3%	49.01 ± 3%	49.21 ± 3%	49.41 ± 3%
	Isc [Adc] /Tolerance	14.27± 4%	14.34 ± 4%	14.41 ± 4%	14.48 ± 4%	14.55 ± 4%
	Vmp [V]	40.26	40.42	40.58	40.74	40.89
	Imax [Adc]	13.66	13.73	13.80	13.87	13.94
BNPI condition	Pmp [W] /Tolerance	600± 3%	605± 3%	610± 3%	616± 3%	621± 3%
	Voc [V] /Tolerance	48.61± 3%	48.81± 3%	49.01± 3%	49.21± 3%	49.41± 3%
	Isc [Adc] /Tolerance	15.55± 4%	15.63± 4%	15.71± 4%	15.78± 4%	15.86± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.69± 5%	17.78± 5%	17.87± 5%	17.96± 5%	18.04± 5%
bifaciality coefficient	φPmax	81± 3%	81± 3%	81± 3%	81± 3%	81± 3%
	φVoc	99± 3%	99± 3%	99± 3%	99± 3%	99± 3%
	φIsc	80± 4%	80± 4%	80± 4%	80± 4%	80± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS500S8-120GANT / RS500S8B-120GANT	RS505S8-120GANT / RS505S8B-120GANT	RS510S8-120GANT / RS510S8B-120GANT	RS515S8-120GANT / RS515S8B-120GANT	RS520S8-120GANT / RS520S8B-120GANT
STC condition	Pmp [W] /Tolerance	500 ± 3%	505 ± 3%	510 ± 3%	515 ± 3%	520 ± 3%
	Voc [V] /Tolerance	44.13± 3%	44.33± 3%	44.53± 3%	44.73± 3%	44.93± 3%
	Isc [Adc] /Tolerance	14.26± 4%	14.33± 4%	14.40± 4%	14.47± 4%	14.54± 4%
	Vmp [V]	36.66	36.83	37.01	37.18	37.36
	Imax [Adc]	13.64	13.71	13.78	13.85	13.92
BNPI condition	Pmp [W] /Tolerance	545± 3%	550± 3%	556± 3%	561± 3%	567± 3%
	Voc [V] /Tolerance	44.13± 3%	44.33± 3%	44.53± 3%	44.73± 3%	44.93± 3%
	Isc [Adc] /Tolerance	15.54± 4%	15.62± 4%	15.70± 4%	15.77± 4%	15.85± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.68± 5%	17.77± 5%	17.86± 5%	17.94± 5%	18.03± 5%
bifaciality coefficient	φPmax	81± 3%	81± 3%	81± 3%	81± 3%	81± 3%
	φVoc	99± 3%	99± 3%	99± 3%	99± 3%	99± 3%
	φIsc	80± 4%	80± 4%	80± 4%	80± 4%	80± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS450S8-108GANT / RS450S8B-108GANT	RS455S8-108GANT / RS455S8B-108GANT	RS460S8-108GANT / RS460S8B-108GANT	RS465S8-108GANT / RS465S8B-108GANT	
STC condition	Pmp [W] /Tolerance	450 ± 3%	455 ± 3%	460 ± 3%	465 ± 3%	
	Voc [V] /Tolerance	39.73 ± 3%	39.93 ± 3%	40.13 ± 3%	40.33 ± 3%	
	Isc [Adc] /Tolerance	14.22 ± 4%	14.29 ± 4%	14.36 ± 4%	14.43 ± 4%	
	Vmp [V]	33.06	33.26	33.45	33.65	
	Imax [Adc]	13.61	13.68	13.75	13.82	
BNPI condition	Pmp [W] /Tolerance	491± 3%	496± 3%	501± 3%	507± 3%	
	Voc [V] /Tolerance	39.73± 3%	39.93± 3%	40.13± 3%	40.33± 3%	
	Isc [Adc] /Tolerance	15.50± 4%	15.58± 4%	15.65± 4%	15.73± 4%	
BSI/aBSI condition	Isc [Adc] /Tolerance	17.63± 5%	17.72± 5%	17.81± 5%	17.89± 5%	
bifaciality coefficient	φPmax	81± 3%	81± 3%	81± 3%	81± 3%	
	φVoc	99± 3%	99± 3%	99± 3%	99± 3%	
	φIsc	80± 4%	80± 4%	80± 4%	80± 4%	
	Maximum system voltage [V]	1500	1500	1500	1500	
	Maximum Over-Current Protection Rating [A]	30	30	30	30	

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	Module type	RS365S8-96GANT / RS365S8B-96GANT	RS370S8-96GANT / RS370S8B-96GANT	RS375S8-96GANT / RS375S8B-96GANT	RS380S8-96GANT / RS380S8B-96GANT	RS385S8-96GANT / RS385S8B-96GANT
STC condition	Pmp [W] /Tolerance	365± 3%	370± 3%	375± 3%	380± 3%	385± 3%
	Voc [V] /Tolerance	33.49± 3%	33.67± 3%	33.85± 3%	34.03± 3%	34.81± 3%
	Isc [Adc] /Tolerance	13.92± 4%	13.98± 4%	14.04± 4%	14.1± 4%	14.05± 4%
	Vmp [V]	27.70	27.95	28.18	28.43	28.63
	Imax [Adc]	13.18	13.24	13.31	13.37	13.45
BNPI condition	Pmp [W] /Tolerance	398± 3%	403± 3%	409± 3%	414± 3%	420± 3%
	Voc [V] /Tolerance	33.49± 3%	33.67± 3%	33.85± 3%	34.03± 3%	34.81± 3%
	Isc [Adc] /Tolerance	15.17± 4%	15.24± 4%	15.30± 4%	15.37± 4%	15.31± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.26± 5%	17.34± 5%	17.41± 5%	17.48± 5%	17.42± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS390S8-96GANT / RS390S8B-96GANT	RS395S8-96GANT / RS395S8B-96GANT	RS400S8-96GANT / RS400S8B-96GANT	RS405S8-96GANT / RS405S8B-96GANT	RS410S8-96GANT / RS410S8B-96GANT
STC condition	Pmp [W] /Tolerance	390± 3%	395± 3%	400± 3%	405± 3%	410± 3%
	Voc [V] /Tolerance	34.99± 3%	35.17± 3%	35.61 ± 3%	35.74 ± 3%	35.87 ± 3%
	Isc [Adc] /Tolerance	14.11± 4%	14.17± 4%	13.49± 4%	13.56± 4%	14.42± 4%
	Vmp [V]	28.85	29.07	29.02	29.23	29.45
	Imax [Adc]	13.52	13.59	13.79	13.86	13.93
BNPI condition	Pmp [W] /Tolerance	425± 3%	431± 3%	436± 3%	441 ± 3%	447 ± 3%
	Voc [V] /Tolerance	34.99± 3%	35.17± 3%	35.61 ± 3%	35.74 ± 3%	35.87 ± 3%
	Isc [Adc] /Tolerance	15.38± 4%	15.45± 4%	14.70 ± 4%	14.78 ± 4%	15.72 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.50± 5%	17.57± 5%	16.73 ± 5%	16.81 ± 5%	17.88± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS320S8-84GANT / RS320S8B-84GANT	RS325S8-84GANT / RS325S8B-84GANT	RS330S8-84GANT / RS330S8B-84GANT	RS335S8-84GANT / RS335S8B-84GANT	RS340S8-84GANT / RS340S8B-84GANT
STC condition	Pmp [W] /Tolerance	320 ± 3%	325 ± 3%	330 ± 3%	335 ± 3%	340 ± 3%
	Voc [V] /Tolerance	29.30 ± 3%	29.49 ± 3%	29.68 ± 3%	29.87 ± 3%	30.46 ± 3%
	Isc [Adc] /Tolerance	13.91± 4%	13.97± 4%	14.03± 4%	14.09± 4%	14.01± 4%
	Vmp [V]	24.32	24.59	24.85	25.12	28.80
	Imax [Adc]	13.16	13.22	13.28	13.34	13.44
BNPI condition	Pmp [W] /Tolerance	349 ± 3%	354 ± 3%	360 ± 3%	365 ± 3%	371 ± 3%
	Voc [V] /Tolerance	29.30 ± 3%	29.49 ± 3%	29.68 ± 3%	29.87 ± 3%	30.46 ± 3%
	Isc [Adc] /Tolerance	15.16± 4%	15.23± 4%	15.29± 4%	15.36± 4%	15.27± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.25 ± 5%	17.32 ± 5%	17.40 ± 5%	17.47 ± 5%	17.37± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS345S8-84GANT / RS345S8B-84GANT	RS350S8-84GANT / RS350S8B-84GANT	RS355S8-84GANT / RS355S8B-84GANT	RS360S8-84GANT / RS360S8B-84GANT	
STC condition	Pmp [W] /Tolerance	345 ± 3%	350± 3%	355± 3%	360± 3%	
	Voc [V] /Tolerance	30.65 ± 3%	31.16 ± 3%	31.27 ± 3%	31.39 ± 3%	
	Isc [Adc] /Tolerance	14.07± 4%	14.27± 4%	14.34± 4%	14.41± 4%	
	Vmp [V]	25.54	25.41	25.64	25.87	
	Imax [Adc]	13.51	13.78	13.85	13.92	
BNPI condition	Pmp [W] /Tolerance	376 ± 3%	382 ± 3%	387 ± 3%	392 ± 3%	
	Voc [V] /Tolerance	30.65 ± 3%	31.16 ± 3%	31.27± 3%	31.39 ± 3%	
	Isc [Adc] /Tolerance	15.34± 4%	15.55 ± 4%	15.63 ± 4%	15.71 ± 4%	
BSI/aBSI condition	Isc [Adc] /Tolerance	17.45± 5%	17.69 ± 5%	17.78 ± 5%	17.87 ± 5%	
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	
	Maximum system voltage [V]	1500	1500	1500	1500	
	Maximum Over-Current Protection Rating [A]	30	30	30	30	

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	Module type	RS275S8-72GANT / RS275S8B-72GANT	RS280S8-72GANT / RS280S8B-72GANT	RS285S8-72GANT / RS285S8B-72GANT	RS290S8-72GANT / RS290S8B-72GANT	RS295S8-72GANT / RS295S8B-72GANT
STC condition	Pmp [W] /Tolerance	275 ± 3%	280 ± 3%	285 ± 3%	290± 3%	295± 3%
	Voc [V] /Tolerance	25.12 ± 3%	25.31 ± 3%	25.50 ± 3%	26.11± 3%	26.30± 3%
	Isc [Adc] /Tolerance	13.93± 4%	13.99± 4%	14.05± 4%	14.03± 4%	14.09± 4%
	Vmp [V]	20.93	21.22	21.50	21.78	22.05
	Imax [Adc]	13.14	13.2	13.26	13.32	13.38
BNPI condition	Pmp [W] /Tolerance	300 ± 3%	305 ± 3%	311 ± 3%	316± 3%	322± 3%
	Voc [V] /Tolerance	25.12 ± 3%	25.31 ± 3%	25.50 ± 3%	26.11± 3%	26.30± 3%
	Isc [Adc] /Tolerance	15.18± 4%	15.25± 4%	15.31± 4%	15.29± 4%	15.36± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	17.27± 5%	17.35± 5%	17.42± 5%	17.40± 5%	17.47± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS300S8-72GANT / RS300S8B-72GANT	RS305S8-72GANT / RS305S8B-72GANT	RS310S8-72GANT / RS310S8B-72GANT		
STC condition	Pmp [W] /Tolerance	300± 3%	305± 3%	310± 3%		
	Voc [V] /Tolerance	26.71 ± 3%	26.81± 3%	26.91 ± 3%		
	Isc [Adc] /Tolerance	14.25± 4%	14.32± 4%	14.39± 4%		
	Vmp [V]	21.68	21.93	22.17		
	Imax [Adc]	13.84	13.91	13.98		
BNPI condition	Pmp [W] /Tolerance	327 ± 3%	332 ± 3%	338± 3%		
	Voc [V] /Tolerance	26.71 ± 3%	26.81± 3%	26.91± 3%		
	Isc [Adc] /Tolerance	15.53 ± 4%	15.61± 4%	15.69 ± 4%		
BSI/aBSI condition	Isc [Adc] /Tolerance	17.67 ± 5%	17.76 ± 5%	17.84 ± 5%		
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%		
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%		
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%		
	Maximum system voltage [V]	1500	1500	1500		
	Maximum Over-Current Protection Rating [A]	30	30	30		

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Data form for critical components and material information

	Module type	RS595S8R-132GANT / RS595S8RB-132GANT	RS600S8R-132GANT / RS600S8RB-132GANT	RS605S8R-132GANT / RS605S8RB-132GANT	RS610S8R-132GANT / RS610S8RB-132GANT	RS615S8R-132GANT / RS615S8RB-132GANT
STC condition	Pmp [W] /Tolerance	595 ± 3%	600 ± 3%	605 ± 3%	610± 3%	615±3%
	Voc [V] /Tolerance	47.50 ± 3%	47.70± 3%	47.90± 3%	48.10± 3%	48.30± 3%
	Isc [Adc] /Tolerance	15.90 ± 4%	15.95 ± 4%	16.00 ± 4%	16.05 ± 4%	16.10 ± 4%
	Vmp [V]	39.27	39.45	39.59	39.77	39.96
	Imax [Adc]	15.15	15.21	15.28	15.34	15.39
BNPI condition	Pmp [W] /Tolerance	649 ± 3%	654 ± 3%	659 ± 3%	665 ± 3%	670 ± 3%
	Voc [V] /Tolerance	47.50 ± 3%	47.70 ± 3%	47.90 ± 3%	48.10 ± 3%	48.30 ± 3%
	Isc [Adc] /Tolerance	17.33 ± 4%	17.39 ± 4%	17.44 ± 4%	17.49 ± 4%	17.55 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	19.72± 5%	19.78± 5%	19.84± 5%	19.90± 5%	19.96± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS620S8R-132GANT / RS620S8RB-132GANT	RS625S8R-132GANT / RS625S8RB-132GANT	RS630S8R-132GANT / RS630S8RB-132GANT	RS635S8R-132GANT / RS635S8RB-132GANT	RS640S8R-132GANT / RS640S8RB-132GANT
STC condition	Pmp [W] /Tolerance	620±3%	625±3%	630±3%	635±3%	640±3%
	Voc [V] /Tolerance	48.50 ± 3%	48.70± 3%	48.90± 3%	49.10±3%	49.30±3%
	Isc [Adc] /Tolerance	16.15 ± 4%	16.20± 4%	16.25± 4%	16.30±4%	16.35±4%
	Vmp [V]	40.11	40.28	40.44	40.60	40.76
	Imax [Adc]	15.46	15.52	15.58	15.64	15.70
BNPI condition	Pmp [W] /Tolerance	676 ± 3%	681± 3%	687± 3%	692±3%	698±3%
	Voc [V] /Tolerance	48.50 ± 3%	48.70± 3%	48.90± 3%	49.10±3%	49.30±3%
	Isc [Adc] /Tolerance	17.60 ± 4%	17.66± 4%	17.71± 4%	17.77±4%	17.82±4%
BSI/aBSI condition	Isc [Adc] /Tolerance	20.03± 5%	20.09± 5%	20.15± 5%	20.21±5%	20.27±5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS540S8R-120GANT / RS540S8RB-120GANT	RS545S8R-120GANT / RS545S8RB-120GANT	RS550S8R-120GANT / RS550S8RB-120GANT	RS555S8R-120GANT / RS555S8RB-120GANT	RS560S8R-120GANT / RS560S8RB-120GANT
STC condition	Pmp [W] /Tolerance	540 ± 3%	545 ± 3%	550 ± 3%	555 ± 3%	560 ± 3%
	Voc [V] /Tolerance	43.88 ± 3%	44.11 ± 3%	44.34 ± 3%	44.57 ± 3%	44.80 ± 3%
	Isc [Adc] /Tolerance	15.53 ± 4%	15.57 ± 4%	15.61 ± 4%	15.65 ± 4%	15.69 ± 4%
	Vmp [V]	36.51	36.75	36.99	37.22	37.46
	Imax [Adc]	14.79	14.83	14.87	14.91	14.95
BNPI condition	Pmp [W] /Tolerance	589 ± 3%	594 ± 3%	600 ± 3%	605 ± 3%	610 ± 3%
	Voc [V] /Tolerance	43.88 ± 3%	44.11 ± 3%	44.34 ± 3%	44.57 ± 3%	44.8 ± 3%
	Isc [Adc] /Tolerance	16.93 ± 4%	16.97 ± 4%	17.01 ± 4%	17.06 ± 4%	17.10 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	19.26 ± 5%	19.31 ± 5%	19.36 ± 5%	19.41 ± 5%	19.46 ± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS565S8R-120GANT / RS565S8RB-120GANT	RS570S8R-120GANT / RS570S8RB-120GANT	RS575S8R-120GANT / RS575S8RB-120GANT	RS580S8R-120GANT / RS580S8RB-120GANT	
STC condition	Pmp [W] /Tolerance	565 ± 3%	570 ± 3%	575 ± 3%	580 ± 3%	
	Voc [V] /Tolerance	45.03± 3%	45.26± 3%	45.49 ± 3%	45.72 ± 3%	
	Isc [Adc] /Tolerance	15.73± 4%	15.77± 4%	15.81 ± 4%	15.85 ± 4%	
	Vmp [V]	37.70	37.93	38.16	38.39	
	Imax [Adc]	14.99	15.03	15.07	15.11	
BNPI condition	Pmp [W] /Tolerance	616± 3%	621± 3%	627 ± 3%	632 ± 3%	
	Voc [V] /Tolerance	45.03± 3%	45.26± 3%	45.49 ± 3%	45.72 ± 3%	
	Isc [Adc] /Tolerance	17.15± 4%	17.19± 4%	17.23 ± 4%	17.28 ± 4%	
BSI/aBSI condition	Isc [Adc] /Tolerance	19.51± 5%	19.56± 5%	19.60 ± 5%	19.65 ± 5%	
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	
	Maximum system voltage [V]	1500	1500	1500	1500	
	Maximum Over-Current Protection Rating [A]	30	30	30	30	

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	Module type	RS485S8R-108GANT / RS485S8RB-108GANT	RS490S8R-108GANT / RS490S8RB-108GANT	RS495S8R-108GANT / RS495S8RB-108GANT	RS500S8R-108GANT / RS500S8RB-108GANT	RS505S8R-108GANT / RS505S8RB-108GANT
STC condition	Pmp [W] /Tolerance	485 ± 3%	490 ± 3%	495 ± 3%	500 ± 3%	505 ± 3%
	Voc [V] /Tolerance	39.39 ± 3%	39.64 ± 3%	39.90 ± 3%	40.16 ± 3%	40.39 ± 3%
	Isc [Adc] /Tolerance	15.49 ± 4%	15.54 ± 4%	15.58 ± 4%	15.62 ± 4%	15.67 ± 4%
	Vmp [V]	32.79	33.04	33.27	33.51	33.73
	Imax [Adc]	14.79	14.83	14.88	14.92	14.97
BNPI condition	Pmp [W] /Tolerance	529 ± 3%	534 ± 3%	540 ± 3%	545 ± 3%	550 ± 3%
	Voc [V] /Tolerance	39.39 ± 3%	39.64 ± 3%	39.9 ± 3%	40.16 ± 3%	40.39 ± 3%
	Isc [Adc] /Tolerance	16.88 ± 4%	16.94 ± 4%	16.98 ± 4%	17.03 ± 4%	17.08 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	19.21 ± 5%	19.27 ± 5%	19.32 ± 5%	19.37 ± 5%	19.43 ± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS510S8R-108GANT / RS510S8RB-108GANT	RS515S8R-108GANT / RS515S8RB-108GANT	RS520S8R-108GANT / RS520S8RB-108GANT	RS525S8R-108GANT / RS525S8RB-108GANT	
STC condition	Pmp [W] /Tolerance	510 ± 3%	515 ± 3%	520 ± 3%	525 ± 3%	
	Voc [V] /Tolerance	40.65 ± 3%	40.90 ± 3%	41.16 ± 3%	41.41 ± 3%	
	Isc [Adc] /Tolerance	15.71 ± 4%	15.76 ± 4%	15.80 ± 4%	15.84 ± 4%	
	Vmp [V]	33.98	34.21	34.43	34.66	
	Imax [Adc]	15.01	15.06	15.10	15.15	
BNPI condition	Pmp [W] /Tolerance	556 ± 3%	561 ± 3%	567 ± 3%	572 ± 3%	
	Voc [V] /Tolerance	40.65 ± 3%	40.90 ± 3%	41.16 ± 3%	41.41 ± 3%	
	Isc [Adc] /Tolerance	17.13 ± 4%	17.17 ± 4%	17.22 ± 4%	17.27 ± 4%	
BSI/aBSI condition	Isc [Adc] /Tolerance	19.48± 5%	19.54± 5%	19.59 ± 5%	19.65 ± 5%	
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	
	Maximum system voltage [V]	1500	1500	1500	1500	
	Maximum Over-Current Protection Rating [A]	30	30	30	30	

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Data form for critical components and material information

	Module type	RS430S8R-96GANT / RS430S8RB-96GANT	RS435S8R-96GANT / RS435S8RB-96GANT	RS440S8R-96GANT / RS440S8RB-96GANT	RS445S8R-96GANT / RS445S8RB-96GANT	RS450S8R-96GANT / RS450S8RB-96GANT
STC condition	Pmp [W] /Tolerance	430 ± 3%	435 ± 3%	440 ± 3%	445 ± 3%	450 ± 3%
	Voc [V] /Tolerance	34.92 ± 3%	35.18 ± 3%	35.43 ± 3%	35.69 ± 3%	35.95 ± 3%
	Isc [Adc] /Tolerance	15.49 ± 4%	15.56 ± 4%	15.61 ± 4%	15.65 ± 4%	15.69 ± 4%
	Vmp [V]	29.09	29.33	29.57	29.81	30.04
	Imax [Adc]	14.78	14.83	14.88	14.93	14.98
BNPI condition	Pmp [W] /Tolerance	469 ± 3%	474 ± 3%	480 ± 3%	485 ± 3%	491 ± 3%
	Voc [V] /Tolerance	34.92 ± 3%	35.18 ± 3%	35.43 ± 3%	35.69 ± 3%	35.95 ± 3%
	Isc [Adc] /Tolerance	16.88 ± 4%	16.96 ± 4%	17.01 ± 4%	17.06 ± 4%	17.10 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	19.21 ± 5%	19.29 ± 5%	19.36 ± 5%	19.41 ± 5%	19.46 ± 5%
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%	81 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30

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	Module type	RS455S8R-96GANT / RS455S8RB-96GANT	RS460S8R-96GANT / RS460S8RB-96GANT	RS465S8R-96GANT / RS465S8RB-96GANT		
STC condition	Pmp [W] /Tolerance	455 ± 3%	460 ± 3%	465 ± 3%		
	Voc [V] /Tolerance	36.21 ± 3%	36.46 ± 3%	36.72 ± 3%		
	Isc [Adc] /Tolerance	15.75 ± 4%	15.80 ± 4%	15.85 ± 4%		
	Vmp [V]	30.28	30.51	30.75		
	Imax [Adc]	15.03	15.08	15.13		
BNPI condition	Pmp [W] /Tolerance	496 ± 3%	501 ± 3%	507 ± 3%		
	Voc [V] /Tolerance	36.21 ± 3%	36.46 ± 3%	36.72 ± 3%		
	Isc [Adc] /Tolerance	17.16 ± 4%	17.22 ± 4%	17.27 ± 4%		
BSI/aBSI condition	Isc [Adc] /Tolerance	19.53 ± 5%	19.59 ± 5%	19.65 ± 5%		
bifaciality coefficient	φPmax	81 ± 3%	81 ± 3%	81 ± 3%		
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%		
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%		
	Maximum system voltage [V]	1500	1500	1500		
	Maximum Over-Current Protection Rating [A]	30	30	30		

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	Module type	RS675S9-132GANT / RS675S9B-132GANT	RS680S9-132GANT / RS680S9B-132GANT	RS685S9-132GANT / RS685S9B-132GANT	RS690S9-132GANT / RS690S9B-132GANT	RS695S9-132GANT / RS695S9B-132GANT
STC condition	Pmp [W] /Tolerance	675 ± 3%	680 ± 3%	685 ± 3%	690 ± 3%	695 ± 3%
	Voc [V] /Tolerance	46.31 ± 3%	46.50 ± 3%	46.69 ± 3%	46.88 ± 3%	47.07 ± 3%
	Isc [Adc] /Tolerance	18.64 ± 4%	18.69 ± 4%	18.74 ± 4%	18.79 ± 4%	18.84 ± 4%
	Vmp [V]	38.35	38.55	38.74	38.94	39.13
	Imax [Adc]	17.60	17.64	17.68	17.72	17.76
BNPI condition	Pmp [W] /Tolerance	736 ± 3%	741 ± 3%	747 ± 3%	752 ± 3%	758 ± 3%
	Voc [V] /Tolerance	46.31 ± 3%	46.50 ± 3%	46.69 ± 3%	46.88 ± 3%	47.07 ± 3%
	Isc [Adc] /Tolerance	20.32 ± 4%	20.37 ± 4%	20.43 ± 4%	20.48 ± 4%	20.54 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.11± 5%	23.18± 5%	23.24± 5%	23.30± 5%	23.36± 5%
bifaciality coefficient	φPmax	80±5%	80±5%	80±5%	80±5%	80±5%
	φVoc	99±5%	99±5%	99±5%	99±5%	99±5%
	φIsc	80±5%	80±5%	80±5%	80±5%	80±5%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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	Module type	RS700S9-132GANT / RS700S9B-132GANT	RS705S9-132GANT / RS705S9B-132GANT	RS710S9-132GANT / RS710S9B-132GANT	RS715S9-132GANT / RS715S9B-132GANT	RS720S9-132GANT / RS720S9B-132GANT
STC condition	Pmp [W] /Tolerance	700 ± 3%	705± 3%	710± 3%	715± 3%	720± 3%
	Voc [V] /Tolerance	47.26 ± 3%	47.45± 3%	47.64± 3%	47.83± 3%	48.02± 3%
	Isc [Adc] /Tolerance	18.89 ± 4%	18.94± 4%	18.99± 4%	19.04± 4%	19.09± 4%
	Vmp [V]	39.33	39.52	39.71	39.90	40.09
	Imax [Adc]	17.80	17.84	17.88	17.92	17.96
BNPI condition	Pmp [W] /Tolerance	763±3%	768 ± 3%	774 ± 3%	779 ± 3%	785 ± 3%
	Voc [V] /Tolerance	47.26±3%	47.45 ± 3%	47.64 ± 3%	47.83 ± 3%	48.02± 3%
	Isc [Adc] /Tolerance	20.59±4%	20.64 ± 4%	20.70± 4%	20.75 ± 4%	20.81 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.42± 5%	23.49± 5%	23.55± 5%	23.61± 5%	23.67± 5%
bifaciality coefficient	φPmax	80±5%	80 ± 3%	80 ± 3%	80±5%	80±5%
	φVoc	99±5%	99 ± 3%	99 ± 3%	99±5%	99±5%
	φIsc	80±5%	80 ± 4%	80 ± 4%	80±5%	80±5%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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	Module type	RS725S9-132GANT / RS725S9B-132GANT	RS730S9-132GANT / RS730S9B-132GANT			
STC condition	Pmp [W] /Tolerance	725 ± 3%	730 ± 3%			
	Voc [V] /Tolerance	48.21 ± 3%	48.40 ± 3%			
	Isc [Adc] /Tolerance	19.14 ± 4%	19.19 ± 4%			
	Vmp [V]	40.28	40.47			
	Imax [Adc]	18.00	18.04			
BNPI condition	Pmp [W] /Tolerance	790 ± 3%	796 ± 3%			
	Voc [V] /Tolerance	48.21 ± 3%	48.40 ±3%			
	Isc [Adc] /Tolerance	20.86 ± 4%	20.92 ± 4%			
BSI/aBSI condition	Isc [Adc] /Tolerance	23.73 ± 5%	23.80 ± 5%			
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%			
	φVoc	99 ± 3%	99 ± 3%			
	φIsc	80 ± 4%	80 ± 4%			
	Maximum system voltage [V]	1500	1500			
	Maximum Over-Current Protection Rating [A]	35	35			

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Data form for critical components and material information

	Module type	RS615S9-120GANT / RS615S9B-120GANT	RS620S9-120GANT / RS620S9B-120GANT	RS625S9-120GANT / RS625S9B-120GANT	RS630S9-120GANT / RS630S9B-120GANT	RS635S9-120GANT / RS635S9B-120GANT
STC condition	Pmp [W] /Tolerance	615 ± 3%	620 ± 3%	625 ± 3%	630 ± 3%	635 ± 3%
	Voc [V] /Tolerance	42.16 ± 3%	42.35 ± 3%	42.54 ± 3%	42.73 ± 3%	42.92 ± 3%
	Isc [Adc] /Tolerance	18.67 ± 4%	18.72 ± 4%	18.77 ± 4%	18.82 ± 4%	18.87 ± 4%
	Vmp [V]	34.90	35.11	35.31	35.51	35.71
	Imax [Adc]	17.62	17.66	17.70	17.74	17.78
BNPI condition	Pmp [W] /Tolerance	670 ± 3%	676 ± 3%	681 ± 3%	687 ± 3%	692±3%
	Voc [V] /Tolerance	42.16 ± 3%	42.35 ± 3%	42.54 ± 3%	42.73 ± 3%	42.92±3%
	Isc [Adc] /Tolerance	20.35 ± 4%	20.40 ± 4%	20.46 ± 4%	20.51 ± 4%	20.57±4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.15± 5%	23.21 ± 5%	23.27± 5%	23.34± 5%	23.4± 5%
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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Data form for critical components and material information

	Module type	RS640S9-120GANT / RS640S9B-120GANT	RS645S9-120GANT / RS645S9B-120GANT	RS650S9-120GANT / RS650S9B-120GANT	RS655S9-120GANT / RS655S9B-120GANT	RS660S9-120GANT / RS660S9B-120GANT
STC condition	Pmp [W] /Tolerance	640± 3%	645± 3%	650± 3%	655± 3%	660 ± 3%
	Voc [V] /Tolerance	43.11± 3%	43.30± 3%	43.49± 3%	43.68± 3%	43.87 ± 3%
	Isc [Adc] /Tolerance	18.92± 4%	18.97± 4%	19.02± 4%	19.07± 4%	19.12 ± 4%
	Vmp [V]	35.92	36.12	36.32	36.52	36.71
	Imax [Adc]	17.82	17.86	17.90	17.94	17.98
BNPI condition	Pmp [W] /Tolerance	698 ± 3%	703 ± 3%	709± 3%	714 ± 3%	719 ± 3%
	Voc [V] /Tolerance	43.11 ± 3%	43.30 ± 3%	43.49 ± 3%	43.68 ± 3%	43.87 ± 3%
	Isc [Adc] /Tolerance	20.62 ± 4%	20.68 ± 4%	20.73 ± 4%	20.79 ± 4%	20.84 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.46± 5%	23.52± 5%	23.59± 5%	23.65± 5%	23.71 ± 5%
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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	Module type	RS665S9-120GANT / RS665S9B-120GANT				
STC condition	Pmp [W] /Tolerance	665 ± 3%				
	Voc [V] /Tolerance	44.06 ± 3%				
	Isc [Adc] /Tolerance	19.17 ± 4%				
	Vmp [V]	36.90				
	Imax [Adc]	18.02				
BNPI condition	Pmp [W] /Tolerance	725 ± 3%				
	Voc [V] /Tolerance	44.06 ± 3%				
	Isc [Adc] /Tolerance	20.90 ± 4%				
BSI/aBSI condition	Isc [Adc] /Tolerance	23.77 ± 5%				
bifaciality coefficient	φPmax	80 ± 3%				
	φVoc	99 ± 3%				
	φIsc	80 ± 4%				
	Maximum system voltage [V]	1500				
	Maximum Over-Current Protection Rating [A]	35				

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	Module type	RS555S9-108GANT / RS555S9B-108GANT	RS560S9-108GANT / RS560S9B-108GANT	RS565S9-108GANT / RS565S9B-108GANT	RS570S9-108GANT / RS570S9B-108GANT	RS575S9-108GANT / RS575S9B-108GANT
STC condition	Pmp [W] /Tolerance	555 ± 3%	560 ± 3%	565 ± 3%	570 ± 3%	575± 3%
	Voc [V] /Tolerance	37.99 ± 3%	38.18 ± 3%	38.37 ± 3%	38.56 ± 3%	38.75± 3%
	Isc [Adc] /Tolerance	18.71 ± 4%	18.76 ± 4%	18.81 ± 4%	18.86 ± 4%	18.91± 4%
	Vmp [V]	31.44	31.66	31.87	32.08	32.29
	Imax [Adc]	17.65	17.69	17.73	17.77	17.81
BNPI condition	Pmp [W] /Tolerance	605 ± 3%	610 ± 3%	616 ± 3%	621±3%	627 ± 3%
	Voc [V] /Tolerance	37.99 ± 3%	38.18 ± 3%	38.37 ± 3%	38.56±3%	38.75 ± 3%
	Isc [Adc] /Tolerance	20.39 ± 4%	20.45 ± 4%	20.50 ± 4%	20.56±4%	20.61 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.20 ± 5%	23.26± 5%	23.32± 5%	23.38± 5%	23.45± 5%
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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Data form for critical components and material information

	Module type	RS580S9-108GANT / RS580S9B-108GANT	RS585S9-108GANT / RS585S9B-108GANT	RS590S9-108GANT / RS590S9B-108GANT	RS595S9-108GANT / RS595S9B-108GANT	RS600S9-108GANT / RS600S9B-108GANT
STC condition	Pmp [W] /Tolerance	580± 3%	585± 3%	590± 3%	595 ± 3%	600 ± 3%
	Voc [V] /Tolerance	38.94± 3%	39.13± 3%	39.32± 3%	39.51 ± 3%	39.70 ± 3%
	Isc [Adc] /Tolerance	18.96± 4%	19.01± 4%	19.06± 4%	19.11 ± 4%	19.16 ± 4%
	Vmp [V]	32.50	32.70	32.91	33.12	33.32
	Imax [Adc]	17.85	17.89	17.93	17.97	18.01
BNPI condition	Pmp [W] /Tolerance	632 ± 3%	638 ± 3%	643 ± 3%	649 ± 3%	654 ± 3%
	Voc [V] /Tolerance	38.94 ± 3%	39.13 ± 3%	39.32 ± 3%	39.51 ± 3%	39.70 ± 3%
	Isc [Adc] /Tolerance	20.67 ± 4%	20.72 ± 4%	20.78 ± 4%	20.83 ± 4%	20.88 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.51± 5%	23.57± 5%	23.63± 5%	23.70 ± 5%	23.76 ± 5%
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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	Module type	RS490S9-96GANT / RS490S9B-96GANT	RS495S9-96GANT / RS495S9B-96GANT	RS500S9-96GANT / RS500S9B-96GANT	RS505S9-96GANT / RS505S9B-96GANT	RS510S9-96GANT / RS510S9B-96GANT
STC condition	Pmp [W] /Tolerance	490 ± 3%	495 ± 3%	500 ± 3%	505 ± 3%	510± 3%
	Voc [V] /Tolerance	33.65 ± 3%	33.84 ± 3%	34.03 ± 3%	34.22 ± 3%	34.41± 3%
	Isc [Adc] /Tolerance	18.68 ± 4%	18.73 ± 4%	18.78 ± 4%	18.83 ± 4%	18.88± 4%
	Vmp [V]	27.79	28.01	28.23	28.45	28.67
	Imax [Adc]	17.63	17.67	17.71	17.75	17.79
BNPI condition	Pmp [W] /Tolerance	534 ± 3%	540 ± 3%	545 ± 3%	550 ± 3%	556 ± 3%
	Voc [V] /Tolerance	33.65 ± 3%	33.84 ± 3%	34.03 ± 3%	34.22 ± 3%	34.41± 3%
	Isc [Adc] /Tolerance	20.36 ± 4%	20.42 ± 4%	20.47 ± 4%	20.52 ± 4%	20.58 ± 4%
BSI/aBSI condition	Isc [Adc] /Tolerance	23.16± 5%	23.22± 5%	23.29± 5%	23.35± 5%	23.41± 5%
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	35	35	35	35	35

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Address of legal entity: 3-13F, No. 151 Heng Tong Road Shanghai, P. R. China
Name of Project Handler: Guangxia Fu

Form

Data form for critical components and material information

	Module type	RS515S9-96GANT / RS515S9B-96GANT	RS520S9-96GANT / RS520S9B-96GANT	RS525S9-96GANT / RS525S9B-96GANT	RS530S9-96GANT / RS530S9B-96GANT	
STC condition	Pmp [W] /Tolerance	515± 3%	520± 3%	525± 3%	530 ± 3%	
	Voc [V] /Tolerance	34.60± 3%	34.79± 3%	34.98± 3%	35.17 ± 3%	
	Isc [Adc] /Tolerance	18.93± 4%	18.98± 4%	19.03± 4%	19.08 ± 4%	
	Vmp [V]	28.89	29.10	29.32	29.53	
	Imax [Adc]	17.83	17.87	17.91	17.95	
BNPI condition	Pmp [W] /Tolerance	561 ± 3%	567 ± 3%	572 ± 3%	578 ± 3%	
	Voc [V] /Tolerance	34.60 ± 3%	34.79 ± 3%	34.98 ± 3%	35.17 ± 3%	
	Isc [Adc] /Tolerance	20.63 ± 4%	20.69 ± 4%	20.74± 4%	20.80 ± 4%	
BSI/aBSI condition	Isc [Adc] /Tolerance	23.47± 5%	23.54± 5%	23.60± 5%	23.66 ± 5%	
bifaciality coefficient	φPmax	80 ± 3%	80 ± 3%	80 ± 3%	80 ± 3%	
	φVoc	99 ± 3%	99 ± 3%	99 ± 3%	99 ± 3%	
	φIsc	80 ± 4%	80 ± 4%	80 ± 4%	80 ± 4%	
	Maximum system voltage [V]	1500	1500	1500	1500	
	Maximum Over-Current Protection Rating [A]	35	35	35	35	

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Doc No.: 168870 Revision: 4 - released Effective date: 29 Nov 2022

Form

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Signature of the Certification Holder:

Name, seal and signature of Certificate Holder:	
Date:	2026-11-11

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