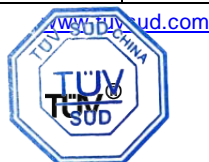




Data form for critical components and material information

Applicant name and address..... :	Jiangsu Seraphim Solar System Co., Ltd (CBW No.: 098455) No. 10, Tongshun Rd, Henglin Zhen,Wujin District, 213101 Changzhou, China.
Manufacturer name and address . :	Jiangsu Seraphim Solar System Co., Ltd (CBW No.: 098455) No. 10, Tongshun Rd, Henglin Zhen,Wujin District, 213101 Changzhou, China.
Name and address of factory / factories..... :	1. Jingyi & Seraphim Hebei Energy Technology Co., Ltd. (CBW No.: 98633) Science & Technology Park, 075600 Zhuolu, Hebei Province, P. R.China. 2. Jinzhai Seraphim Energy Technology Co., Ltd East of the intersection of Shichuan Road and Jinjiazhai Road, Jinzhai Economic Development Zone (Modern Industrial Park), Lu 'an City, Anhui Province,China 3. Elin Elektrik Insaat Musaavirlik Proje Taahhut Ticaret ve Sanayi A.S.(CBW No.: 108867) Baskent O.S.B.23. Cadde No: 2 Malikoy 06909 Sincan Ankara, TURKEY. 4. Anhui Seraphim Energy CO., LTD (CBW No.: 113958) Jingqi Road, Tonghang Avenue, Yingshang Economic Development Zone, Fuyang, Anhui, China.
Project-No./Report-No. :	704062310808-06A1
Test item description..... :	See the corresponding test report
Model/Type reference : Single glass modules	182mm half-cut cell (perc): 1) SRP-xxx-BMA-HV (xxx=535-560, in steps of 5); 2) SRP-xxx-BMB-HV (xxx=445-465, in steps of 5); 3) SRP-xxx-BMC-HV (xxx=490-510, in steps of 5); 4) SRP-xxx-BMD-HV (xxx=400-420, in steps of 5); 5) SRP-xxx-BMZ-HV (xxx=575-605, in steps of 5); 182mm half-cut cell (topcon): 6) SRP-xxx-BTA-HV(xxx=550-590, in steps of 5); 7) SRP-xxx-BTB-HV(xxx=460-490, in steps of 5); 8) SRP-xxx-BTC-HV(xxx=505-540, in steps of 5); 9) SRP-xxx-BTD-HV(xxx=415-440, in steps of 5); 10) SRP-xxx-BTZ-HV (xxx=600-635, in steps of 5). 210mm half-cut cell (perc): 11) SRP-xxx-BMB-HV(xxx=590-610, in steps of 5); 12) SRP-xxx-BMC-HV(xxx=650-675, in steps of 5); 13) SRP-xxx-BMD-HV(xxx=535-550, in steps of 5); 14) SRP-xxx-BME-HV(xxx=475-490, in steps of 5); 15) SRP-xxx-BMF-HV(xxx=415-430, in steps of 5);

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 1 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang

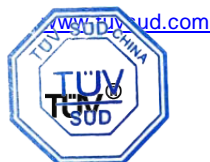
Jiangsu



Data form for critical components and material information

	xxx is standing for rated output power at STC.
<p>Model/Type reference : Double glass modules</p>	<p>182mm half-cut cell (perc): 16) SRP-xxx-BMA-BG (xxx=535-560, in steps of 5); 17) SRP-xxx-BMB-BG (xxx=445-465, in steps of 5); 18) SRP-xxx-BMC-BG (xxx=490-510, in steps of 5); 19) SRP-xxx-BMD-BG (xxx=400-420, in steps of 5); 20) SRP-xxx-BMZ-BG (xxx=575-605, in steps of 5); 182mm half-cut cell (topcon): 21) SRP-xxx-BTA-BG (xxx=550-595, in steps of 5); 22) SRP-xxx-BTB-BG (xxx=460-495, in steps of 5); 23) SRP-xxx-BTC-BG (xxx=505-545, in steps of 5); 24) SRP-xxx-BTD-BG (xxx=415-445, in steps of 5); 25) SRP-xxx-BTZ-BG (xxx=600-645, in steps of 5). 210mm half-cut cell (perc): 26) SRP-xxx-BMB-BG(xxx=590-610, in steps of 5); 27) SRP-xxx-BMC-BG(xxx=650-675, in steps of 5); 28) SRP-xxx-BMD-BG(xxx=535-550, in steps of 5); 29) SRP-xxx-BME-BG(xxx=475-490, in steps of 5); 30) SRP-xxx-BMF-BG(xxx=415-430, in steps of 5); 182*199mm half-cut cell (topcon): 31) SRP-xxx-BTA-BG(xxx=620-640, in steps of 5); 32) SRP-xxx-BTC-BG(xxx=570-585, in steps of 5); 33) SRP-xxx-BTD-BG(xxx=465-480, in steps of 5); 182*210mm half-cut cell (topcon): 34) SRP-xxx-BTB-BG(xxx=550-570, in steps of 5); 35) SRP-xxx-BTC-BG(xxx=605-630, in steps of 5); 36) SRP-xxx-BTD-BG(xxx=495-515, in steps of 5); 37) SRP-xxx-BTE-BG(xxx=440-460, in steps of 5); 38) SRP-xxx-BTF-BG(xxx=385-400, in steps of 5); 210mm half-cut cell (topcon): 39) SRP-xxx-BTB-BG(xxx=625-650, in steps of 5); 40) SRP-xxx-BTC-BG(xxx=685-715, in steps of 5); 41) SRP-xxx-BTD-BG(xxx=560-585, in steps of 5); 42) SRP-xxx-BTE-BG(xxx=500-520, in steps of 5); 43) SRP-xxx-BTF-BG(xxx=435-455, in steps of 5); 210mm half-cut cell (HJT):</p>

Doc No.: 168870 Revision: 4 - released

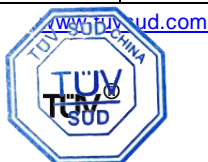




Data form for critical components and material information

	44) SRP-xxx-BHB-BG(xxx=635-655, in steps of 5); 45) SRP-xxx-BHC-BG(xxx=695-720, in steps of 5); 46) SRP-xxx-BHD-BG(xxx=570-590, in steps of 5); 47) SRP-xxx-BHE-BG(xxx=505-520, in steps of 5); 48) SRP-xxx-BHF-BG(xxx=440-460, 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	<input type="checkbox"/> I / <input type="checkbox"/> II / <input checked="" type="checkbox"/> III / <input type="checkbox"/> IV / <input type="checkbox"/> N/A
Pollution degree	<input checked="" type="checkbox"/> 1 / <input type="checkbox"/> 2 / <input type="checkbox"/> 3 / <input type="checkbox"/> 4 / <input type="checkbox"/> N/A
Class of protection.....	<input type="checkbox"/> Class I (PE connected) <input checked="" type="checkbox"/> Class II (isolated) <input type="checkbox"/> Class III <input type="checkbox"/> Others: <input checked="" type="checkbox"/> N/A
Product with functional earthing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Environmental conditions / Maximum ambient temperature (°C).....	:-40 °C~+40 °C
Equipment mobility / Classification of installation and use.....	<input type="checkbox"/> transportable / <input type="checkbox"/> portable / <input type="checkbox"/> stationary / <input type="checkbox"/> mobile / <input type="checkbox"/> fixed / <input checked="" type="checkbox"/> permanently installed / <input type="checkbox"/> hand-held / <input type="checkbox"/> body-worn / <input type="checkbox"/> building-in / <input checked="" type="checkbox"/> Others: ≤2000 m above sea level
Overall size of equipment (mm) : Single glass modules	182mm half-cut cell (perc): 1) 2278*1134*35(30)(28) 2) 1909*1134*35(30)(28) 3) 2093*1134*35(30)(28) 4) 1722*1134*35(30)(28) 5) 2465*1134*35(30)(28) 182mm half-cut cell (topcon): 6) 2278*1134*35(30)(28) 7) 1909*1134*35(30)(28)



Jing



Data form for critical components and material information

	<p>8) 2093*1134*35(30)(28) 9) 1722*1134*35(30)(28) 10) 2465*1134*35(30)(28) 210mm half-cut cell (perc): 11) 2172*1303*35(33) 12) 2384*1303*35(33) 13) 1962*1303*35(33) 14) 1751*1303*35(33) 15) 1540*1303*35(33)</p>
<p>Overall size of equipment (mm) : Double glass modules</p>	<p>182mm half-cut cell (perc 2.0 glass&1.6glass): 16) 2278*1134*30 17) 1909*1134*30/28 18) 2093*1134*30 19) 1722*1134*30/28 20) 2465*1134*30(35) 182mm half-cut cell (topcon 2.0glass&1.6glass): 21) 2278*1134*30 22) 1909*1134*30/28 23) 2093*1134*30 24) 1722*1134*30/28 25) 2465*1134*30(35) 210mm half-cut cell (perc 2.0glass): 26) 2172*1303*35(33) 27) 2384*1303*35(33) 28) 1962*1303*35(33) 29) 1751*1303*35(33) 30) 1540*1303*35(33) 182*199mm half-cut cell (topcon 2.0glass): 31) 2465*1134*30 32) 2278*1134*30 33) 1864*1134*30 182*210mm half-cut cell (topcon 2.0glass&1.6glass): 34) 2172*1134*30 35) 2382*1134*30 36) 1962*1134*30/28 37) 1762*1134*30/28</p>

Doc No.: 168870 Revision: 4 - released





Data form for critical components and material information

	<p>38) 1540*1134*30/28 210mm half-cut cell (topcon 2.0glass): 39) 2172*1303*35(33) 40) 2384*1303*35(33) 41) 1962*1303*35(33) 42) 1751*1303*35(33) 43) 1540*1303*35(33) 210mm half-cut cell (HJT 2.0glass): 44) 2172*1303*35(33) 45) 2384*1303*35(33) 46) 1962*1303*35(33) 47) 1751*1303*35(33) 48) 1540*1303*35(33)</p>
<p>Mass of equipment (kg)..... : Single glass modules</p>	<p>182mm half-cut cell (perc): 1) 27.0&27.0&26.0kg 2) 22.3&22.3&21.5kg 3) 24.5&24.5&24kg 4) 21.3&21.5&21.0kg 5) 29&29&28.5kg 182mm half-cut cell (topcon): 6) 27.0&27.0&26.0kg 7) 22.3&22.3&21.5kg 8) 24.5&24.5&24kg 9) 21.3&21.5&21.0kg 10) 29&29&28.5kg 210mm half-cut cell (perc): 11) 31.0&29.5kg 12) 34.0&32.2kg 13) 27.8&26.4kg 14) 24.7&23.7kg 15) 21.6&20.9kg</p>
<p>Mass of equipment (kg)..... : Double glass modules</p>	<p>182mm half-cut cell (perc 2.0 glass&1.6glass): 16) 32kg 17) 2.0 glass: 27.3kg for 30mm; 1.6 glass : 23kg for 30mm, 22.8kg for 28mm. 18) 29.4kg</p>

Doc No.: 168870 Revision: 4 - released





Data form for critical components and material information

	<p>19) 2.0 glass: 24kg for 30mm; 1.6 glass: 20.6kg for 30mm, 21kg for 28mm.</p> <p>20) 34.6(35)kg</p> <p>182mm half-cut cell (topcon 2.0 glass&1.6glass):</p> <p>21) 32kg</p> <p>22) 2.0 glass: 27.3kg for 30mm; 1.6 glass: 23kg for 30mm, 22.8kg for 28mm.</p> <p>23) 29.4kg</p> <p>24) 2.0 glass: 24kg for 30mm; 1.6 glass: 20.6kg for 30mm 21kg for 28mm.</p> <p>25) 34.6(35)kg</p> <p>210mm half-cut cell (perc 2.0glass):</p> <p>26) 35.0&35.0kg</p> <p>27) 38.5&38.5kg</p> <p>28) 31.5&31.5kg</p> <p>29) 28.0&28.0kg</p> <p>30) 24.5&24.5kg</p> <p>182*199mm half-cut cell (topcon 2.0glass):</p> <p>31) 34.6kg</p> <p>32) 32kg</p> <p>33) 27kg</p> <p>182*210mm half-cut cell (topcon 2.0glass&1.6glass):</p> <p>34) 30.7kg</p> <p>35) 33.7kg</p> <p>36) 2.0 glass: 27.8kg for 30mm; 1.6 glass: 24.4kg for 30mm, 24kg for 28mm.</p> <p>37) 2.0 glass: 24.9kg for 30mm; 1.6glass: 21.5kg for 30mm, 21.1kg for 28mm.</p> <p>38) 2.0 glass: 21.8kg for 30mm; 1.6 glass: 18.4kg for 30mm, 18kg for 28mm.</p> <p>210mm half-cut cell (topcon 2.0glass):</p> <p>39) 35.0&35.0kg</p> <p>40) 38.5&38.5kg</p> <p>41) 31.5&31.5kg</p> <p>42) 28.0&28.0kg</p> <p>43) 24.5&24.5kg</p> <p>210mm half-cut cell (HJT 2.0glass):</p> <p>44) 35.0&35.0kg</p>
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Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 6 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang

Form



Product Service

Data form for critical components and material information

	45) 38.5&38.5kg 46) 31.5&31.5kg 47) 28.0&28.0kg 48) 24.5&24.5kg
Data communication ports: <input checked="" type="checkbox"/> N/A	
Wired ports	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> USB <input type="checkbox"/> LAN <input type="checkbox"/> DALI <input type="checkbox"/> other:
Wireless ports	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Wifi <input type="checkbox"/> Bluetooth <input type="checkbox"/> NFC <input type="checkbox"/> 4G/LTE <input type="checkbox"/> 5G <input type="checkbox"/> Other:
Data Storage/ Processing	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Local <input checked="" type="checkbox"/> Cloud

Additional IEC 60601-1 / EN 60601-1 / ANSI/AAMI ES60601-1 / CAN/CSA-C22.2 No. 60601-1: <input checked="" type="checkbox"/> N/A	
Applied part type	<input type="checkbox"/> B <input type="checkbox"/> BF <input type="checkbox"/> CF <input type="checkbox"/> Defibrillation-Proof <input checked="" type="checkbox"/> 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

Additional information:

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 7 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang

Jing

Form



Product Service

Data form for critical components and material 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 Double glass modules
- Class B
- Class C Single or double glass modules

Frame:

- Framed
- Frameless

Designed mechanical load and safety factor:

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

Serial No. bar code:

Annex I Rules of Serial number of Seraphim														
the first		the second to sixth							the seventh to eighth	the ninth to tenth	the eleventh to thirteenth	the fourteenth to eighteenth		
type of module		model of module							year	month	batch number	Product serial number		
code	type of module	code	type of cell	code	the place of manufacture	code	the size of cell	pcs of cells		code	code	code	code	
								the following apply to the S, G, A, B, C, D modules						
								code	cells arrangement					
S	Standard module	P	poly	1	Shuyang Saibo(China)	5	125 or 125.4			1	6	0	1	
E	Eclipse module	M	mono	2	INFINI (Japan)	6	156 or 156.75 or 157 or 158.75	36	4*9	1	7	0	2	
G	Class module	H	HJT	3	Jingyi (China)	7	166	42	6*7 (*2)	1	8	0	3	
B	Blade module	T	Topcon	4	Venergy (Vietnam)	8	182	48	6*8 (*2)	1	9	0	4	
A	bifacial module			5	seraphim-linnan (China)	9	210	54	6*9 (*2)	2	0	0	5	
C	Blade bifacial module			6	seraphim-hengyao road (China)	0	182*210	60	6*10 (*2)	2	1	0	6	
D	Blade bifacial module			7	seraphim-tongshun Rd (China)			66	6*11 (*2)	2	2	0	7	
F	Single glass three fragment module			8	LUAN Seraphim			72	6*12 (*2)	2	3	0	8	
H	Double glass three fragment module			9	South Africa Seraphim			78	6*13 (*2)	2	4	0	9	
				0	Elin (Turkey)			96	8*12	2	5	1	0	
				A	seraphim-jinzhai (China)			the following apply to the E modules		2	6	1	1	
				B	seraphim-yingshang(China)			code	Number of strings	code	the number of cells per string			
				C	Daxter (Turkey)			1	12	1	34			
				D	MECEN (Vietnam)			2	10	2	33			
				E	Taoistic(changzhou)			3	8	3	32			
				F	Taoistic(Xu Zhou)			4	6	4	31			
				G	Yunnan					5	30			
								the following apply to the F, H modules						
								code	cells arrangement					
								48	6*12*2					
								52	6*13*2					
								56	6*14*2					
								60	6*15*2					
								64	6*16*2					
								68	6*17*2					
								72	6*18*2					

Label:

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 8 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang

Jing Tang



Data form for critical components and material information

Jiangsu Seraphim Solar System Co.,Ltd.

Add.No.10 Tongshun Rd,Henglin Zhen,Wujin District
213101 Changzhou,PEOPLE'S REPUBLIC OF CHINA
www.seraphim-energy.com
Tested according to IEC 61215-1:2021,IEC
61215-1-1:2021,IEC 61215-2:2021,IEC
61730-1:2023,IEC 61730-2:2023
Made in China

PV Module Classification:Class II

SHIFTING·THE FUTURE

Module Type:	SRP-700-BTC-BG	Pmax(BNPI):	767W±3%	Dimension:	2384×1303×33mm
Pmax(STC):	700W	Isc(BNPI):	20.08A±4%	Cell Technology:	Mono-Si
Power Sorting:	(0,+4.99)	Voc(BNPI):	48.58V±3%	Min. Design Load:	+3600/-1600Pa
Imp(STC):	17.28A	Isc(BSI) ^b :	22.72A±4%	Sys.Volt:	1500V
Vmp(STC):	40.53V	Fire Rating:	Class A	Module(T ₉₅) _{max} :	70°C
Isc(STC):	18.32A±4%	Weight:	38.5kg	Max. series fuse:	30A
Voc(STC):	48.50V±3%			Power Tolerance:	±3%

Bifaciality coefficient^a: $\Phi_{Voc}=0.99(\pm 5\%)$ $\Phi_{Isc}=0.8(\pm 10\%)$ $\Phi_{Pmax}=0.8(\pm 10\%)$

Connector (see manual for designated connectors): Z4S
All technical data measured at STC: 1000 W/m²,AM1.5,25°C

BNPI: front 1000 W/m² rear 135 W/m²
BSI: front 1000 W/m² rear 300 W/m²
a Only required for IEC 61215 series.
b Depending on bifaciality, BSI (≤ 300 W/m²) or aBSI (> 300 W/m²) is required.

Jiangsu Seraphim Solar System Co.,Ltd.

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Tested according to IEC 61215-1:2021,IEC
61215-1-1:2021,IEC 61215-2:2021,IEC
61730-1:2023,IEC 61730-2:2023
Made in China

PV Module Classification:Class II

SHIFTING·THE FUTURE

Module Type:	SRP-580-BTA-BG	Pmax(BNPI):	636W±3%	Dimension:	2278×1134×30mm
Pmax(STC):	580W	Isc(BNPI):	15.42A±4%	Cell Technology:	Mono-Si
Power Sorting:	(0,+4.99)	Voc(BNPI):	52.18V±3%	Min. Design Load:	+3600/-1600Pa
Imp(STC):	13.37A	Isc(BSI) ^b :	17.45A±4%	Sys.Volt:	1500V
Vmp(STC):	43.40V	Fire Rating:	Class A	Module(T ₉₅) _{max} :	70°C
Isc(STC):	14.07A±4%	Weight:	32.0kg	Max. series fuse:	25A
Voc(STC):	52.10V±3%			Power Tolerance:	±3%

Bifaciality coefficient^a: $\Phi_{Voc}=0.99(\pm 5\%)$ $\Phi_{Isc}=0.8(\pm 10\%)$ $\Phi_{Pmax}=0.8(\pm 10\%)$

Connector (see manual for designated connectors): Z4S
All technical data measured at STC: 1000 W/m²,AM1.5,25°C

BNPI: front 1000 W/m² rear 135 W/m²
BSI: front 1000 W/m² rear 300 W/m²
a Only required for IEC 61215 series.
b Depending on bifaciality, BSI (≤ 300 W/m²) or aBSI (> 300 W/m²) is required.

Jiangsu Seraphim Solar System Co.,Ltd.

Add.No.10 Tongshun Rd,Henglin Zhen,Wujin District
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Tested according to IEC 61215-1:2021,IEC
61215-1-1:2021,IEC 61215-2:2021,IEC
61730-1:2023,IEC 61730-2:2023
Made in China

PV Module Classification:Class II

SHIFTING·THE FUTURE

Module Type:	SRP-415-BMD-BG	Pmax(BNPI):	454W±3%	Dimension:	1722×1134×28mm
Pmax(STC):	415W	Isc(BNPI):	15.21A±4%	Cell Technology:	Mono-Si
Power Sorting:	(0,+4.99)	Voc(BNPI):	37.62V±3%	Min. Design Load:	+3600/-1600Pa
Imp(STC):	13.32A	Isc(BSI) ^b :	16.82A±4%	Sys.Volt:	1500V
Vmp(STC):	31.16V	Fire Rating:	Class A	Module(T ₉₅) _{max} :	70°C
Isc(STC):	13.90A±4%	Weight:	21.0kg	Max. series fuse:	25A
Voc(STC):	37.42V±3%			Power Tolerance:	±3%

Bifaciality coefficient^a: $\Phi_{Voc}=0.99(\pm 5\%)$ $\Phi_{Isc}=0.7(\pm 10\%)$ $\Phi_{Pmax}=0.7(\pm 10\%)$

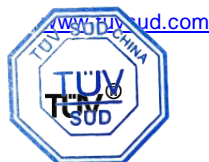
Connector (see manual for designated connectors): Z4S
All technical data measured at STC: 1000 W/m²,AM1.5,25°C

BNPI: front 1000 W/m² rear 135 W/m²
BSI: front 1000 W/m² rear 300 W/m²
a Only required for IEC 61215 series.
b Depending on bifaciality, BSI (≤ 300 W/m²) or aBSI (> 300 W/m²) is required.

Limited materials combinations for single glass module:

J-box Adhesive	J-Box	Backsheet
KDW 1536	SRP02-abcd	FFC-JW3010(plus)
1527	SRP02-abcd	Cynagard 255
1527	SRP02-abcd	FFC-JW3010(plus)

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 9 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang

Data form for critical components and material information

Encapsulation	Backsheet
B601HP/ B601P	FFC-JW3010(plus)
B602/B601W	FFC-JW3010(plus)
B601HP/ B601P	Cynagard 255
GW801A/GW801V	FFC-JW3010(plus)

Limited materials combinations for Double glass module:

J-box Adhesive	J-Box	Backsheet
KDW 1536	SRP02-abcd	ShanXi RiShengDa
1527	SRP02-abcd	Anhui Seraphim
KDW 1536	SRP02-abcd	Flat glass
KDW 1536	SRP02-abcd	Anhui yanlongji
KDW 1536	SRP02-abcd	Ninghai Kibing
KDW 1536	SRP02-abcd	Almaden
1527	SRP02-abcd	Anhui yanlongji
RS-3300	SRP02-abcd	Almaden(2.5mm)
KDW 1536	SRP02-abcd	Almaden(1.6mm)

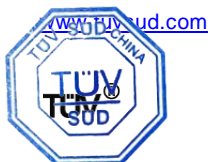





Single glass modules

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
Cell	Aiko Solar Energy Technology Co.,Ltd	Mono-Si, Cell type: 7M9E1018A-L1, Perc 10 busbars. Bifacial cell Cell dimensions: L*W: 182mmx91mm±0.5mm Thickness:165±17.5µm Cell area: 165.07 (cm ²)	Tested with appliance
	Aiko Solar Energy Technology Co.,Ltd	Mono-Si, Cell type: 8S7E1218A-R1, Perc 12 busbars. Bifacial cell. Cell dimensions: L*W: 210mmx105mm±0.5mm, Thickness:185±18.5µm, Cell area: 220.5 (cm ²)	Tested with appliance
	JIETAI TECHNOLOGY	Mono-Si, Cell type: CZJT-182M-16D1, TOPCon,16 busbars. Bifacial cell Cell dimensions: Lx W: 182mmx91mm±0.5mm Thickness:140µm±14µm Cell area: 165.07 (cm ²)	Tested with appliance
	JIETAI TECHNOLOGY	Mono-Si, Cell type: N182CG16D1, TOPCon,16 busbars. Bifacial cell Cell dimensions: Lx W: 182.2mmx91.875mm±0.5mm Thickness:130µm±13µm Cell area: 165.07 (cm ²)	Tested with appliance
Superstrate	FLAT GLASS GROUP CO., LTD.	Type: AR coating tempered glass Thickness: 3.2 (mm)	Tested with appliance
	Anhui Seraphim Energy Co., LTD	Type: AR coating tempered glass Thickness: 3.2 (mm)	Tested with appliance
	Anhui yanlongji New Energy Technology Co.,Ltd	Type: AR coating tempered glass Thickness: 3.2 (mm)	Tested with appliance
Substrate (backsheet)	Jolywood (Suzhou) Sunwatt Co.,Ltd.	Type: FFC-JW3010(plus) white. 1500V Material: FFC/PET/FFC, Thickness:13/285/12 um. TI: 110.8°C.	TÜV SÜD
	Cybird Technologies Inc	Type: Cynagard 255, 1500V Material: Coating (12µm/White)/PET(288µm/White)/coating (4µm/White or Black).	TÜV SÜD



Jiang

Data form for critical components and material information

Encapsulant	Changzhou Betterial Film Technologies Co.,Ltd.	B601HP(with front surface), thickness:0.45-0.55mm. B601P(with rear surface), thickness:0.45-0.55mm	Tested with appliance
	Changzhou Betterial Film Technologies Co.,Ltd.	B602(with front surface), thickness:0.6-0.7mm. B601W(with rear surface), thickness:0.6-0.65mm	Tested with appliance
	Golden Wrapping (Shanghai) Technology.,Ltd.	GW801A(with front surface), thickness:0.495-0.605mm. GW801V(with rear surface), thickness:0.513-0.627mm	Tested with appliance
Junction box 1	Changzhou Seraphim Trading Co., LTD	SRP02-abcd 1000V or 1500V 20A,25A or 30A IP65/IP68(1m,1h), -40 °C to 85 °C.	TÜV SÜD
Potting Material	H.B. Fuller(Suzhou) Advanced Material Co., Ltd.	1521 (white)	Tested with appliance
		1533 (white and black)	Tested with appliance
	Shanghai Huitian New Material Co., Ltd.	5299W-S (white and black)	Tested with appliance
		5299W(white)	Tested with appliance
	LIYANG KANGDAWEI INDUSTRIAL CO.,LTD	KDW-3582	Tested with appliance
Jolywood (Suzhou) Sunwatt Co.,Ltd	JW-3707	Tested with appliance	
Adhesive for junction box	Liyang Kangdawei Industry Co.,Ltd	Silicone adhesive, type KDW-1536	Tested with appliance
	H.B. Fuller(Suzhou) Advanced Material Co., Ltd.	Silicone adhesive, type 1527	Tested with appliance
Cable for photovoltaic equipment	Wuxi Xinhongye Wire & Cable Co.,Ltd.	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Wuxi Suntech Power Co.,Ltd.	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Zerun Co., LTD	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
		H1Z2Z2-K 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Suzhou BAOHING Electric Wire&Cable Co.,LTD.	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Changshu JHOSIN	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland



Data form for critical components and material information

	Communication Technology Co., LTD		
	Huzhou Shangfu Wire & Cable High Technology Co., Ltd	62930 IEC 131 1X4,0 mm ² , 1500V, -40°C~+90°C	TÜVSÜD
Connector for Photovoltaic system	Zerun Co., LTD.	Z4S-abcde, 1500VDC, 40A for 4,0mm ²	TÜV Rheinland
	Stäubli Electrical Connectors AG	PV-KST4-EVO 2/xy_UR, PV-KBT4-EVO2/xy_UR, 1500VDC, 45A(4mm ²), 53A(6mm ²)	TÜV Rheinland
		PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy, 1500VDC, 45A(4mm ²), 53A(6mm ²)	TÜV Rheinland
		PV-KST4/xy-UR; PVKBT4/xy-UR, 1000VDC, 39A	TÜV Rheinland
	Amphenol Industrial Operations	H4Labcdef, 1100VDC, rated current: 35A for 4,0mm ²	TÜV Rheinland
	Amphenol Technology (Shenzhen) Co., LTD	UTXCFabce, UTXCMabcd, 1500VDC, rated current: 42A for 4,0mm ²	TÜV Rheinland
	Tyco Electronics Austria GmbH	PV4-S1yx, 1500VDC, 40A for 4mm ²	TÜV Rheinland
	Jiangxi Jinko PV Material Co., Ltd.	PV-JK03M2/xy(Plug+Socket), 1500VDC, 30A(2,5mm ²), 45A(4,0mm ²), 50A(6,0mm ²), 60A(10,0mm ²), IP68	TÜV SÜD
	Jiangsu Tonglin Electric Co., Ltd.	TL-CABLE01S, TLCABLE01SF; 1500VDC, 41A(4,0mm ²), 46A(6,0mm ²), IP68	TÜV Rheinland
	Wuxi Suntech Power Co., Ltd.	STP-XC4-4; STP-XC4-6; 1500VDC, 41A(4,0mm ²) for STP-XC4-4, 46A(6,0mm ²) for STP-XC4-6, IP68	TÜV Rheinland
	Hanwha Q CELLS(Qidong) Co., Ltd	HQC4, 1500VDC, 41A(4,0mm ²)	TÜV Rheinland
	Zerun Co., LTD.	Z4S-abcd (a=C or P; b=T or H; c=A or B or C; d=A or B), 1500VDC for (d=B); 41A for (c=B)	TÜV SÜD
	QC Solar (Suzhou) Corporation	QC4.10-cds, 1500VDC, 36A or 41A or 46A or 42A or 55A or 60A	TÜV SÜD
Bypass diode	Zerun Co., LTD(OEM: 30SQ045, IF(AV) =30A, VRRM=45V, Tj=200°C, 20A,	Test with unit	

Doc No.: 168870 Revision: 4 - released

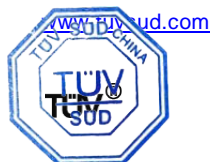




Data form for critical components and material information

	Hangzhou Daoming Microelectronic Co., Ltd.)	35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit
		38SQ045,IF(AV) =38A,VRRM =45V,Tj=200°C,25A,	Test with unit
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit
	Zerun Co., LTD(OEM: NANTONG GAOXIN ELECTRONICS CO.,LTD)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit
	Zerun Co., LTD(OEM: NANTONG HORNBY ELECTRONIC CO.,LTD)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit
	Zerun Co., LTD(OEM: (Yangzhou Yangjie Electronic Technology Co., Ltd.)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit
	Zerun Co., LTD (OEM: Anhui Juxin Semiconductor Technology Co., Ltd.)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit
Cell interconnector	Wuxi Changliang Photoelectric Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
	Anhui Tongcheng New Energy Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
	Sveck Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance

Doc No.: 168870 Revision: 4 - released



Data form for critical components and material information

	Suzhou YourBest New-type Materials Co.,Ltd.	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
	Jiangsu Lanxin New Energy Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
	Suzhou Xiangbang New Material Technology Co., Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
String connector	Shanghai Sanysolar materials Technology Co., Ltd	Cross section: 0.35× 4mm,0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40,	Tested with appliance
	Wuxi Changliang Photoelectric Technology Co.,Ltd	Cross section: 0.35× 4mm, 0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40, thickness 0.02~0.025 mm at each side	Tested with appliance
	Sveck Technology Co.,Ltd	Cross section: 0.35×4mm,0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40,	Tested with appliance
	Anhui Tongcheng New Energy Technology Co.,Ltd	Cross section: 0.35×4mm, 0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40,	Tested with appliance
	ChangZhou Greateen New Energy Technology Co.,Ltd	Cross section: 0.35×4mm, 0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40,	Tested with appliance
	Xi'an Telison New Materials Co.,Ltd	Cross section: 0.35×4mm, 0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40,	Tested with appliance
	Jiangsu Lanxin New Energy Technology Co.,Ltd	Cross section: 0.35×4mm,0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Suzhou Boneed Photovoltaic Technology Co., Ltd	Cross section: 0.35×4mm,0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40 black	Tested with appliance
	Suzhou Xiangbang New Material Technology Co., Ltd	Cross section: 0.35×4mm,0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40	Tested with appliance
Fluxing material	Zhengzhou Wise PV Technology Co.,Ltd	WS-868-S2	Tested with appliance
	Zhengzhou Wise PV Technology Co.,Ltd	WS-867	Tested with appliance

Form



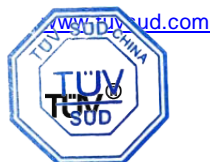
Product Service

Data form for critical components and material information

	Shenzhen Vital New Material Company Limited	WTO-PV112F	Tested with appliance
	Singapore Asahi Chemical and Solder Industries Pte Ltd	SF56	Tested with appliance
	Shenzhen Tong fang Electronic New Material Co., Ltd	TFHF9100	Tested with appliance
Frame	Changzhou Lidu Lighting Co., Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Wuxi Xuye Metal Products Manufacturing Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Jiangyin Zhaoxu Metal Products manufactory Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	AnHui XinXu New Energy Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Wuxi Xisha Photoelectric Aluminium Products Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	CITIC BOHAI ALUMINUM INDUSTRIES HOLDING CO.,LTD	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Anhui Xinbo Technology Co., LTD.	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Chi zhou Anan Aluminum CO.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Anhui Haifu New Meterial Technology Co.Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Shandong Phoenix New Material Technology Co., Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
Adhesive for frame	Liyang Kangdawei Industry Co.,Ltd	Silicone adhesive, type KDW-1536	Tested with appliance
	H.B. Fuller (Suzhou) Advanced Material Co., Ltd.	Silicone adhesive, type 1527	Tested with appliance
Insulation material between string connectors	N/A	N/A	N/A
Fixing tape	3M	UV-1	Tested with appliance

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 16 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

Label	Wuxi Zhengfeng Special printing Co., Ltd.	Material: PET	Tested with appliance
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Electrical Parameter Table:

Product Electrical Ratings at STC:							
Module	SRP-535-BMA-HV	SRP-540-BMA-HV	SRP-545-BMA-HV	SRP-550-BMA-HV	SRP-555-BMA-HV	SRP-560-BMA-HV	SRP-445-BMB-HV
open-circuit voltage (with tolerance±3%) [V]:	49.4	49.5	49.6	49.7	49.8	49.9	41.22
voltage at max. power [V]:	41.29	41.55	41.8	42.05	42.31	42.56	34.18
current at max. power [A]:	12.96	13	13.04	13.08	13.12	13.16	13.03
short-circuit current (with tolerance±4%) [A]:	13.7	13.81	13.9	14	14.1	14.21	13.66
max. power (with tolerance±3%) [W]:	535	540	545	550	555	560	445
Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	12	12	12	12	12	12	12
Product Electrical Ratings at STC:							
Module	SRP-450-BMB-HV	SRP-455-BMB-HV	SRP-460-BMB-HV	SRP-465-BMB-HV	SRP-490-BMC-HV	SRP-495-BMC-HV	SRP-500-BMC-HV
open-circuit voltage (with tolerance±3%) [V]:	41.32	41.42	41.52	41.62	45.32	45.43	45.53
voltage at max. power [V]:	34.28	34.38	34.49	34.6	37.59	37.7	37.78
current at max. power [A]:	13.13	13.24	13.34	13.44	13.05	13.15	13.24
short-circuit current (with tolerance±4%) [A]:	13.76	13.86	13.96	14.06	13.68	13.79	13.89
max. power (with tolerance±3%) [W]:	450	455	460	465	490	495	500

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 17 of 62



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 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

Jiang



Data form for critical components and material information

Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	12	12	12	12	12	12	12

Product Electrical Ratings at STC:							
Module	SRP-505-BMC-HV	SRP-510-BMC-HV	SRP-400-BMD-HV	SRP-405-BMD-HV	SRP-410-BMD-HV	SRP-415-BMD-HV	SRP-420-BMD-HV
open-circuit voltage (with tolerance±3%) [V]:	45.63	45.75	37.12	37.22	37.32	37.42	37.52
voltage at max. power [V]:	37.87	37.95	30.81	30.93	31.05	31.16	31.28
current at max. power [A]:	13.34	13.44	12.99	13.1	13.21	13.32	13.43
short-circuit current (with tolerance±4%) [A]:	13.99	14.1	13.6	13.7	13.8	13.9	14
max. power (with tolerance±3%) [W]:	505	510	400	405	410	415	420
Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	12	12	12	12	12	12	12

Product Electrical Ratings at STC:							
Module	SRP-575-BMZ-HV	SRP-580-BMZ-HV	SRP-585-BMZ-HV	SRP-590-BMZ-HV	SRP-595-BMZ-HV	SRP-600-BMZ-HV	SRP-605-BMZ-HV
open-circuit voltage (with tolerance±3%) [V]:	53.23	53.43	53.63	53.83	54.03	54.23	54.43
voltage at max. power [V]:	44.61	44.81	45.01	45.21	45.41	45.61	45.81
current at max. power [A]:	12.89	12.95	13.01	13.06	13.11	13.16	13.21
short-circuit current (with tolerance±4%) [A]:	13.75	13.81	13.87	13.93	13.99	14.05	14.11
max. power (with tolerance±3%) [W]:	575	580	585	590	595	600	605
Series Fuse Rating [A]	25	25	25	25	25	25	25

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 18 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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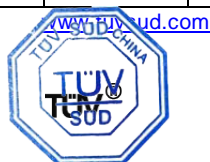
Data form for critical components and material information

Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	12	12	12	12	12	12	12

Product Electrical Ratings at STC:							
Module	SRP-590-BMB-HV	SRP-595-BMB-HV	SRP-600-BMB-HV	SRP-605-BMB-HV	SRP-610-BMB-HV	SRP-650-BMC-HV	SRP-655-BMC-HV
open-circuit voltage (with tolerance±3%) [V]:	41.29	41.49	41.69	41.89	42.09	45.48	45.68
voltage at max. power [V]:	34.18	34.38	34.58	34.78	34.98	37.76	37.96
current at max. power [A]:	17.26	17.31	17.36	17.41	17.46	17.21	17.25
short-circuit current (with tolerance±4%) [A]:	18.28	18.34	18.40	18.46	18.52	18.34	18.39
max. power (with tolerance±3%) [W]:	590	595	600	605	610	650	655
Series Fuse Rating [A]	30	30	30	30	30	30	30
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	13.5	13.5	13.5	13.5	13.5	13.5	13.5

Product Electrical Ratings at STC:							
Module	SRP-660-BMC-HV	SRP-665-BMC-HV	SRP-670-BMC-HV	SRP-675-BMC-HV	SRP-535-BMD-HV	SRP-540-BMD-HV	SRP-545-BMD-HV
open-circuit voltage (with tolerance±3%) [V]:	45.88	46.08	46.28	46.48	38.9	39.1	39.3
voltage at max. power [V]:	38.16	38.36	38.56	38.76	31.55	31.77	31.99
current at max. power [A]:	17.29	17.33	17.37	17.41	16.96	17	17.04
short-circuit current (with tolerance±4%) [A]:	18.44	18.49	18.54	18.59	17.89	17.94	17.99
max. power (with tolerance±3%) [W]:	660	665	670	675	535	540	545
Series Fuse Rating [A]	30	30	30	30	30	30	30
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 19 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

Jiang



Data form for critical components and material information

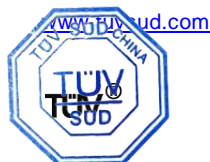
Min. creepage distance [mm]	13.5	13.5	13.5	13.5	13.5	13.5	13.5
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Product Electrical Ratings at STC:							
Module	SRP-550-BMD-HV	SRP-475-BME-HV	SRP-480-BME-HV	SRP-485-BME-HV	SRP-490-BME-HV	SRP-415-BMF-HV	SRP-420-BMF-HV
open-circuit voltage (with tolerance±3%) [V]:	39.5	36.5	36.7	36.9	37.1	34.10	34.30
voltage at max. power [V]:	32.21	28.83	29.06	29.29	29.52	25.94	26.19
current at max. power [A]:	17.08	16.48	16.52	16.56	16.6	16.00	16.04
short-circuit current (with tolerance±4%) [A]:	18.04	17.29	17.34	17.39	17.44	16.69	16.74
max. power (with tolerance±3%) [W]:	550	475	480	485	490	415	420
Series Fuse Rating [A]	30	30	30	30	30	30	30
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	13.5	13.5	13.5	13.5	13.5	13.5	13.5

Product Electrical Ratings at STC:							
Module	SRP-425-BMF-HV	SRP-430-BMF-HV	SRP-550-BTA-HV	SRP-555-BTA-HV	SRP-560-BTA-HV	SRP-565-BTA-HV	SRP-570-BTA-HV
open-circuit voltage (with tolerance±3%) [V]:	34.50	34.70	50.9	51.1	51.3	51.5	51.7
voltage at max. power [V]:	26.44	26.68	42.2	42.4	42.6	42.8	43
current at max. power [A]:	16.08	16.12	13.04	13.1	13.16	13.21	13.26
short-circuit current (with tolerance±4%) [A]:	16.79	16.84	13.71	13.77	13.83	13.89	13.95
max. power (with tolerance±3%) [W]:	425	430	550	555	560	565	570
Series Fuse Rating [A]	30	30	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	13.5	13.5	11.2	11.2	11.2	11.2	11.2

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 20 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

Product Electrical Ratings at STC:							
Module	SRP-575-BTA-HV	SRP-580-BTA-HV	SRP-585-BTA-HV	SRP-590-BTA-HV	SRP-455-BTB-HV	SRP-460-BTB-HV	SRP-465-BTB-HV
open-circuit voltage (with tolerance±3%) [V]:	51.9	52.1	52.3	52.5	42.20	42.40	42.60
voltage at max. power [V]:	43.2	43.4	43.6	43.8	35.00	35.20	35.40
current at max. power [A]:	13.32	13.37	13.42	13.48	13.00	13.07	13.14
short-circuit current (with tolerance±4%) [A]:	14.01	14.07	14.13	14.19	13.70	13.76	13.82
max. power (with tolerance±3%) [W]:	575	580	585	590	455	460	465
Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	11.2	11.2	11.2	11.2	12	12	12
Product Electrical Ratings at STC:							
Module	SRP-470-BTB-HV	SRP-475-BTB-HV	SRP-480-BTB-HV	SRP-485-BTB-HV	SRP-490-BTB-HV	SRP-500-BTC-HV	SRP-505-BTC-HV
open-circuit voltage (with tolerance±3%) [V]:	42.80	43.00	43.20	43.40	43.60	46.60	46.80
voltage at max. power [V]:	35.60	35.80	36.00	36.20	36.40	38.60	38.80
current at max. power [A]:	13.21	13.27	13.34	13.41	13.48	12.96	13.02
short-circuit current (with tolerance±4%) [A]:	13.88	13.94	14.00	14.06	14.12	13.67	13.73
max. power (with tolerance±3%) [W]:	470	475	480	485	490	500	505
Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	12	12	12	12	12	12	12
Product Electrical Ratings at STC:							



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Data form for critical components and material information

Module	SRP-510-BTC-HV	SRP-515-BTC-HV	SRP-520-BTC-HV	SRP-525-BTC-HV	SRP-530-BTC-HV	SRP-410-BTD-HV	SRP-415-BTD-HV
open-circuit voltage (with tolerance±3%) [V]:	47.00	47.20	47.40	47.60	47.80	38.10	38.30
voltage at max. power [V]:	39.00	39.20	39.40	39.60	39.80	31.50	31.70
current at max. power [A]:	13.08	13.14	13.20	13.26	13.32	13.02	13.09
short-circuit current (with tolerance±4%) [A]:	13.79	13.85	13.91	13.97	14.03	13.67	13.75
max. power (with tolerance±3%) [W]:	510	515	520	525	530	410	415
Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	12	12	12	12	12	10.8	10.8

Product Electrical Ratings at STC:

Module	SRP-420-BTD-HV	SRP-425-BTD-HV	SRP-430-BTD-HV	SRP-435-BTD-HV	SRP-440-BTD-HV	SRP-600-BTZ-HV	SRP-605-BTZ-HV
open-circuit voltage (with tolerance±3%) [V]:	38.50	38.70	38.90	39.10	39.30	55.24	55.44
voltage at max. power [V]:	31.90	32.10	32.30	32.50	32.70	46.02	46.19
current at max. power [A]:	13.17	13.24	13.32	13.39	13.47	13.04	13.10
short-circuit current (with tolerance±4%) [A]:	13.83	13.91	13.99	14.07	14.15	13.71	13.77
max. power (with tolerance±3%) [W]:	420	425	430	435	440	600	605
Series Fuse Rating [A]	25	25	25	25	25	25	25
Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
Min. creepage distance [mm]	10.8	10.8	10.8	10.8	10.8	11.4	11.4

Product Electrical Ratings at STC:

Module	SRP-610-BTZ-HV	SRP-615-BTZ-HV	SRP-620-BTZ-HV	SRP-625-BTZ-HV	SRP-630-BTZ-HV	SRP-635-BTZ-HV	

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 22 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

Jing

Form



Product Service

Data form for critical components and material information

open-circuit voltage (with tolerance±3%) [V]:	55.64	55.84	56.04	56.24	56.44	56.64	
voltage at max. power [V]:	46.36	46.56	46.76	46.93	47.13	47.31	
current at max. power [A]:	13.16	13.21	13.26	13.32	13.37	13.43	
short-circuit current (with tolerance±4%) [A]:	13.83	13.89	13.95	14.01	14.07	14.13	
max. power (with tolerance±3%) [W]:	610	615	620	625	630	635	
Series Fuse Rating [A]	25	25	25	25	25	25	
Maximum System Voltage	1500	1500	1500	1500	1500	1500	
Min. creepage distance [mm]	11.4	11.4	11.4	11.4	11.4	11.4	

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 23 of 62



Jiang

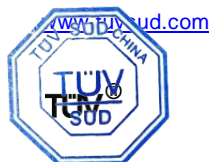
Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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 Name of Project Handler: Ning Tang



Double glass modules

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
Cell	Aiko Solar Energy Technology Co.,Ltd	Mono-Si, Cell type: 7M9E1018A-L1, Perc 10 busbars. Bifacial cell Cell dimensions:L*W: 182mmx91mm±0.5mm Thickness:165±17.5µm Cell area: 165.07 (cm ²)	Tested with appliance
	Jiangsu Longheng new energy Co., Ltd	Mono-Si, Cell type: S18210BB023, Perc 10 busbars. Bifacial cell Cell dimensions:L*W: 182mmx91mm±0.5mm Thickness:150±15.0µm Cell area: 165.07 (cm ²)	Tested with appliance
	Anhui Yingfa Desheng Technology Co.,Ltd	Mono-Si, Cell type:M10-A, Perc 10 busbars. Bifacial cell Cell dimensions:L*W: 182mmx91mm±0.5mm Thickness:155±15.5µm Cell area: 165.07 (cm ²)	Tested with appliance
	SolarSpace Technology Development (Chuzhou) Co., Ltd	Mono-Si, Cell type:M18216BTP10, Topcon 16 busbars. Bifacial cell Cell dimensions:L*W: 182mmx91mm±0.5mm Thickness:130±13.0µm Cell area: 165.07 (cm ²)	Tested with appliance
	SolarSpace Technology Co., Ltd	Mono-Si, Cell type:M21012BBF50, Perc 12busbars. Bifacial cell Cell dimensions:L*W: 210*105 ± 0.25mm Thickness:160 ± 16 µ m Cell area: 220.5(cm ²)	Tested with appliance
	SolarSpace Technology Co., Ltd	Mono-Si, Cell type: M21018BTP50, Topcon 18busbars. Bifacial cell Cell dimensions:L*W: 210*105 ± 1.50mm Thickness:135 ± 13.5 µ m Cell area: 220.5(cm ²)	Tested with appliance
	ANHUI MEIDALUN TECHNOLOGY CO., LTD	Mono-Si, Cell type:M18216BTS02, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mmx91mm±0.5mm Thickness:130±13.0µm Cell area: 165.07 (cm ²)	Tested with appliance
	ANHUI MEIDALUN TECHNOLOGY CO., LTD	Mono-Si, Cell type:M18316BTR02, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mm*91.875mm±0.5mm	Tested with appliance



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Data form for critical components and material information

		Thickness:130±13.0µm Cell area: 167.39 (cm²)	
AnHui Serawing Solar Energy Technology Co., LTD		Mono-Si, Cell type:SW-199MR-16A01, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mmx99.5mm±0.5mm Thickness:130±13.0µm Cell area: 180.74 (cm²)	Tested with appliance
Anhui Yingfa Ruineng Technology Co.,Ltd		Mono-Si, Cell type: G10R-A-16BB, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mm*105mm±0.5mm Thickness:135±13.5µm Cell area: 190.93 (cm²)	Tested with appliance
Anhui Yingfa Ruineng Technology Co.,Ltd		Mono-Si, Cell type: M10-A-16BB, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mmx91mm±0.5mm Thickness:130±13.0µm Cell area: 165.07 (cm²)	Tested with appliance
Anhui Yingfa Ruineng Technology Co.,Ltd		Mono-Si, Cell type: G10L-A-16BB, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mm*91.875mm±0.5mm Thickness:135±13.5µm Cell area: 167.39 (cm²)	Tested with appliance
Zhejiang Lunisolar Co.Ltd		Mono-Si, Cell type:LSL-182M-16D3, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mmx91mm±0.5mm Thickness:130±13.0µm Cell area: 165.07 (cm²)	Tested with appliance
Zhejiang Lunisolar Co.Ltd		Mono-Si, Cell type:N183AM16D, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mm*91.875mm±0.5mm Thickness:130±13.0µm Cell area: 167.39 (cm²)	Tested with appliance
Zhejiang Aiko Solar Energy Technology Co., Ltd		Mono-Si, Cell type:AXTM10S16, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mmx91.1mm±0.5mm Thickness:130±13.0µm Cell area: 165.07 (cm²)	Tested with appliance
Zhejiang Aiko Solar Energy Technology Co., Ltd		Mono-Si, Cell type:AXTM10R16, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mm*91.875mm±0.5mm Thickness:130±13.0µm Cell area: 167.39 (cm²)	Tested with appliance
Zhejiang Aiko Solar Energy Technology Co., Ltd		Mono-Si, Cell type: AXTG12S18, Topcon 18 busbars. Bifacial cell Cell dimensions: L*W: 210mm*105mm±0.5mm Thickness:130±13.0µm	Tested with appliance

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 25 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang



Data form for critical components and material information

		Cell area: 220.5 (cm ²)	
	JIETAI TECHNOLOGY	Mono-Si, Cell type:CZJT-182M-16D1, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mmx91mm±0.5mm Thickness:140±14.0µm Cell area: 165.07 (cm ²)	Tested with appliance
	JIETAI TECHNOLOGY	Mono-Si, Cell type: N182CG16D1, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mmx91.875mm±0.5mm Thickness:130±13.0µm Cell area: 167.39 (cm ²)	Tested with appliance
	ZHE JIANG WINHITECH NEW ENERGY CO.,LTD.	Mono-Si, Cell type: RHA-H02-02-18, HJT 18 busbars. Bifacial cell Cell dimensions: L*W: 210*105±0.25mm Thickness:120±12 µ m Cell area: 220.5(cm ²)	Tested with appliance
	TONGWEI SOLAR CO., LTD.	Mono-Si, Cell type: M182AGBTCONBP 16busbars. Bifacial cell Cell dimensions: L*W: 182*105±0.5mm Thickness:130±13.0 µ m Cell area: 190.93 (cm ²)	Tested with appliance
	SunSync Solar Technology (Yibin) Co., Ltd.	Mono-Si, Cell type: N183GBTOPCBP 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2*91.1±0.5mm Thickness:130±13.0 µ m Cell area: 165.07 (cm ²)	Tested with appliance
	SolarSpace Technology Development (Chuzhou) Co., Ltd	Mono-Si, Cell type: M18316BTP50, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mmx91.875mm±0.25mm Thickness:130±13.0µm Cell area: 167.39 (cm ²)	Tested with appliance
	TONGWEI SOLAR CO., LTD.	Mono-Si, Cell type: M182GBTCONBP 16busbars. Bifacial cell Cell dimensions: L*W: 182.2*91.875±0.5mm Thickness:130±13.0 µ m Cell area: 167.39 (cm ²).	Tested with appliance
	Zhejiang Aiko Solar Energy Technology Co., Ltd	Mono-Si, Cell type: AXTG12R16, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182mm*105mm±0.5mm Thickness:130±13.0µm Cell area: 190.93 (cm ²)	Tested with appliance
	TONGWEI SOLAR CO., LTD.	Mono-Si, Cell type: M210IBTCONBP 18 busbars. Bifacial cell Cell dimensions: L*W: 210*105±0.5mm Thickness:130±13.0 µ m Cell area: 220.5 (cm ²).	Tested with appliance

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 26 of 62



Legal entity: TÜV SÜD Certification and Testing (China)
Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong
Road
City, Country: Shanghai, P. R. China
Name of Project Handler: Ning Tang

Data form for critical components and material information

	Anhui Shijing SolarPower Technology Co.,Ltd	Mono-Si, Cell type: NC182B16BB0071L, Topcon 16 busbars. Bifacial cell Cell dimensions: L*W: 182.2mmx91.875mm±0.25mm Thickness:130±13.0µm Cell area: 167.39 (cm ²)	Tested with appliance
	Zhejiang Lunisolar Co.Ltd	Mono-Si, Cell type: N210BM16D 16busbars. Bifacial cell Cell dimensions: L*W: 182*105±0.5mm Thickness:130±13.0 µ m Cell area: 190.93 (cm ²)	Tested with appliance
	AnHui Serawing Solar Energy Technology Co., LTD	Mono-Si, Cell type: SW-210MH-18A01 18busbars. Bifacial cell Cell dimensions: L*W: 210*105±0.5mm Thickness:130±13.0 µ m Cell area: 220.5 (cm ²).	Tested with appliance
Superstrate	ShanXi RiShengDa New Material Technology Co.,Ltd	Type: AR coating tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Anhui Seraphim Energy Co., LTD	Type: AR coating tempered glass Thickness: 2.0 (mm)	Tested with appliance
	FLAT GLASS GROUP CO., LTD	Type: AR coating tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Anhui yanlongji New Energy Technology Co.,Ltd	Type: AR coating tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Zhejiang Ninghai Kibing New Energy Management Co., Ltd	Type: AR coating tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Changzhou Almaden Co., Ltd	Type: AR coating tempered glass Thickness: 2.0 (mm) or 2.5(mm)	Tested with appliance
	Changzhou Almaden Co., Ltd	Type: AR coating tempered glass Thickness: 1.6 (mm), restricted use with family 17),19), 22), 24), 36),37),38).	Tested with appliance
Substrate (backsheets)	ShanXi RiShengDa New Material Technology Co.,Ltd	Type: tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Anhui Seraphim Energy Co., LTD	Type: tempered glass Thickness: 2.0 (mm)	Tested with appliance
	FLAT GLASS GROUP CO., LTD	Type: tempered glass Thickness: 2.0 (mm)	Tested with appliance



Data form for critical components and material information

	Anhui yanlongji New Energy Technology Co.,Ltd	Type: tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Zhejiang Ninghai Kibing New Energy Management Co., Ltd	Type: tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Changzhou Almaden Co., Ltd	Type: tempered glass Thickness: 2.0 (mm)	Tested with appliance
	Changzhou Almaden Co., Ltd	Type: tempered glass Thickness: 1.6 (mm), restricted use with family (17), (19), (22), (24), (36), (37), (38).	Tested with appliance
Encapsulant	Changzhou Betterial Film Technologies Co.,Ltd.	Type: B601HP (with front surface), thickness: 0.45-0.55mm; Type: B602M with back surface), thickness: 0.45-0.6mm	Tested with appliance
	Changzhou Betterial Film Technologies Co.,Ltd.	Type: B602M (with front surface), thickness: 0.55-0.65mm; Type: B601HP(with back surface), thickness: 0.55-0.66mm	Tested with appliance
	ANHUI KRX NEW MATERIALS CO.,LTD	Type: EP602/(with front surface), thickness: 0.5-0.6mm; Type: K202(with back surface), thickness: 0.5-0.6mm	Tested with appliance
	Zhejiang Sinopont Technology Co., Ltd	Type: PO8110e/(with front surface), thickness: 0.6-0.7mm; Type: EVA 9110T(with back surface), thickness: 0.5-0.6mm.	Tested with appliance
	Zhejiang Sinopont Technology Co., Ltd	Type: PO8110e/(with front surface), thickness: 0.5-0.6mm; Type: PO8110e (with back surface), thickness: 0.5-0.6mm.	Tested with appliance
	Jolywood(Jiangsu) Sunwatt Co., Ltd.	Type: JW-EPE01(with front surface), thickness: 0.45-0.60mm; Type: JW-EVA01 (with back surface), thickness: 0.45-0.55mm.	Tested with appliance
	Changzhou Betterial Film Technologies Co.,Ltd.	Type: B602M (with front surface and rear surface), thickness: 0.55-0.65mm.	Tested with appliance
Junction box 1	Changzhou Seraphim Trading Co., LTD	SRP02-abcd 1000V or 1500V	TÜV SÜD



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Form



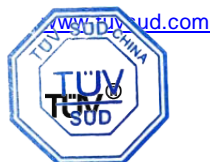
Product Service

Data form for critical components and material information

		20A,25A or 30A IP65/IP68(1m,1h), -40 °C to 85 °C.	
Potting Material	H.B. Fuller(Suzhou) Advanced Material Co., Ltd.	1521 (white)	Tested with appliance
		1533 (white and black)	Tested with appliance
	Shanghai Huitian New Material Co., Ltd.	5299W-S (white and black)	Tested with appliance
		5299W(white)	Tested with appliance
	LIYANG KANGDAWEI INDUSTRIAL CO.,LTD	KDW-3582	Tested with appliance
	Jolywood (Suzhou) Sunwatt Co.,Ltd	JW-3707	Tested with appliance
	Zhenjiang Raybond New Material Technology Co., LTD.	RS-3200	Tested with appliance
Adhesive for junction box	Liyang Kangdawei Industry Co.,Ltd	Silicone adhesive, type KDW-1536	Tested with appliance
	H.B. Fuller (Suzhou) Advanced Material Co., Ltd.	Silicone adhesive, type 1527	Tested with appliance
	Zhenjiang Raybond New Material Technology Co., LTD.	RS-3300	Tested with appliance
Cable for photovoltaic equipment	Wuxi Xinhongye Wire & Cable Co.,Ltd.	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Wuxi Suntech Power Co.,Ltd.	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Zerun Co., LTD	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
		H1Z2Z2-K 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Suzhou BAOHING Electric Wire&Cable Co.,LTD.	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Changshu JHOSIN Communication Technology Co., LTD	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜV Rheinland
	Huzhou Shangfu Wire &Cable High Technology Co.,Ltd	62930 IEC 131 1X4,0 mm2, 1500V, -40°C~+90°C	TÜVSÜD
Connector for Photovoltaic system	Zerun Co., LTD.	Z4S-abcde,1500VDC,40A for 4,0mm ²	TÜV Rheinland
	Stäubli Electrical Connectors AG	PV-KST4-EVO 2/xy_UR, PV-KBT4-EVO2/xy_UR,	TÜV Rheinland

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
Revision / Version: 06A1
Date: 2024-12-13
Page 29 of 62



Legal entity: TÜV SÜD Certification and Testing (China)
Co., Ltd. Shanghai Branch
Address of legal entity: Street:3-13F, No. 151 Heng Tong
Road
City, Country: Shanghai, P. R. China
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Data form for critical components and material information

		1500VDC,45A(4mm ²),53A(6mm ²)	
		PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy, 1500VDC,45A(4mm ²),53A(6mm ²)	TÜV Rheinland
		PV-KST4/xy-UR; PVKBT4/xy-UR, 1000VDC,39A	TÜV Rheinland
	Amphenol Industrial Operations	H4Labcdef, 1100VDC, rated current:35A for 4,0mm ²	TÜV Rheinland
	Amphenol Technology (Shenzhen) Co., LTD	UTXCFabce, UTXCMabcd, 1500VDC, rated current: 42A for 4,0mm ²	TÜV Rheinland
	Tyco Electronics Austria GmbH	PV4-S1yx,1500VDC, 40A for 4mm ²	TÜV Rheinland
	Jiangxi Jinko PV Material Co.,Ltd.	PV-JK03M2/xy(Plug+Socket), 1500VDC,30A(2,5mm ²), 45A(4,0mm ²),50A(6,0mm ²),60A(10,0mm ²),IP68	TÜV SÜD
	Jiangsu Tonglin Electric Co., Ltd.	TL-CABLE01S, TLCABLE01SF; 1500VDC,41A(4,0mm ²),46A(6,0mm ²),IP68	TÜV Rheinland
	Wuxi Suntech Power Co.,Ltd.	STP-XC4-4; STP-XC4-6; 1500VDC,41A(4,0mm ²) for STP-XC4-4, 46A(6,0mm ²) for STP-XC4-6,IP68	TÜV Rheinland
	Hanwha Q CELLS(Qidong) Co.,Ltd	HQC4,1500VDC, 41A(4,0mm ²)	TÜV Rheinland
	Zerun Co., LTD.	Z4S-abcd (a=C or P; b=T or H; c=A or B or C; d=A or B), 1500VDC for (d=B);41A for (c=B)	TÜV SÜD
	QC Solar (Suzhou) Corporation	QC4.10-cds,1500VDC, 36A or 41A or 46A or 42A or 55A or 60A	TÜV SÜD
Bypass diode	Zerun Co., LTD(OEM: Hangzhou Daoming Microelectronic Co., Ltd.)	30SQ045,IF(AV) =30A,VRRM=45V,Tj=200°C,20A,	Test with unit
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit
		38SQ045,IF(AV) =38A,VRRM =45V,Tj=200°C,25A,	Test with unit
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit
	Zerun Co., LTD(OEM: NANTONG GAOXIN	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit

Doc No.: 168870 Revision: 4 - released





Data form for critical components and material information

	ELECTRONICS CO.,LTD)	35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit	
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit	
	Zerun Co., LTD(OEM: NANTONG HORNBY ELECTRONIC CO.,LTD)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit	
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit	
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit	
	Zerun Co., LTD(OEM: (Yangzhou Yangjie Electronic Technology Co., Ltd.)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit	
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A	Test with unit	
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A,	Test with unit	
	Zerun Co., LTD (OEM: Anhui Juxin Semiconductor Technology Co., Ltd.)	30SQ045,IF(AV) =30A,VRRM =45V,Tj=200°C,20A,	Test with unit	
		35SQ045,IF(AV) =35A,VRRM =45V,Tj=200°C,25A,	Test with unit	
		40SQ045,IF(AV) =40A,VRRM =45V,Tj=200°C,30A	Test with unit	
	Cell interconnector	Wuxi Changliang Photoelectric Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
		Anhui Tongcheng New Energy Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
			Diameter: 0.22±10%mm. Diameter: 0.24±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
		Sveck Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
Suzhou YourBest New-type Materials Co.,Ltd.		Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance	

Doc No.: 168870 Revision: 4 - released

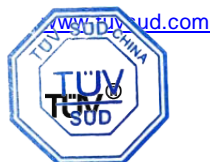




Data form for critical components and material information

	Jiangsu Lanxin New Energy Technology Co.,Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Diameter: 0.24 ^{+0.015} _{-0.005} mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
	Suzhou Xiangbang New Material Technology Co., Ltd	Diameter: 0.26±10%mm. Diameter: 0.28±10%mm. Type: Tinned copper ribbon, Base Cu (≥99.97%), Sn60Pb40	Tested with appliance
String connector	Shanghai Sanysolar materials Technology Co., Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Wuxi Changliang Photoelectric Technology Co.,Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Changzhou Beida Machinery Manufacturing Co., Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Sveck Technology Co.,Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Anhui Tongcheng New Energy Technology Co.,Ltd	Cross section: 0.35×4mm, 0.4*6mm Material: Base Cu (≥99.95%). Coating Sn60Pb40,	Tested with appliance
	ChangZhou Greateen New Energy Technology Co.,Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Xi'an Telison New Materials Co.,Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Jiangsu Lanxin New Energy Technology Co.,Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
	Suzhou Boneed Photovoltaic Technology Co., Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40 black	Tested with appliance
	Suzhou Xiangbang New Material Technology Co., Ltd	Cross section: 0.35×4mm. 0.4*6mm Material: Base Cu (≥99.95%).Coating Sn60Pb40	Tested with appliance
Fluxing material	Zhengzhou Wise PV Technology Co.,Ltd	WS-868-S2	Tested with appliance
	Zhengzhou Wise PV Technology Co.,Ltd	WS-867	Tested with appliance

Doc No.: 168870 Revision: 4 - released



Form



Product Service

Data form for critical components and material information

	Shenzhen Vital New Material Company Limited	WTO-PV112F	Tested with appliance
	Singapore Asahi Chemical and Solder Industries Pte Ltd	SF56	Tested with appliance
	Shenzhen Tong fang Electronic New Material Co., Ltd	TFHF9100	Tested with appliance
	Kester Components Pte Ltd	952-S	Tested with appliance
	National Solder Company Pty Ltd	Flux NCF 101	Tested with appliance
Frame	Changzhou Lidu Lighting Co., Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Wuxi Xuye Metal Products Manufacturing Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Jiangyin Zhaoxu Metal Products manufactory Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	AnHui XinXu New Energy Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Wuxi Xisha Photoelectric Aluminium Products Co.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	CITIC BOHAI ALUMINUM INDUSTRIES HOLDING CO.,LTD	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Anhui Xinbo Technoly Co., LTD.	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Chi zhou Anan Aluminum CO.,Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Anhui Haifu New Meterial Technology Co.Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Shandong Phoenix New Material Technology Co., Ltd	Anodized aluminum alloy, type 6063-T6/6005-T6	Tested with appliance
	Arctech Solar Holding Co., Ltd	Fiberglass polyurethane, type: ZXB-M-S-3030, black, Tl=90°C. TÜV SÜD cert.: B 098465 0007 Rev.00	Tested with appliance
Adhesive for frame	Liyang Kangdawei Industry Co.,Ltd	Silicone adhesive, type KDW-1536	Tested with appliance

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 33 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

Form



Product Service

Data form for critical components and material information

	H.B. Fuller (Suzhou) Advanced Material Co., Ltd.	Silicone adhesive, type 1527	Tested with appliance
	Zhenjiang Raybond New Material Technology Co., LTD.	RS-3300	Tested with appliance
Insulation material between string connectors	N/A	N/A	N/A
Fixing tape	3M	UV-1	Tested with appliance
Label	Wuxi Zhengfeng Special printing Co., Ltd.	Material: PET	Tested with appliance

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 34 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

Electrical Parameter Table:

Product Electrical Ratings at STC:								
	Module	SRP-535-BMA-BG	SRP-540-BMA-BG	SRP-545-BMA-BG	SRP-550-BMA-BG	SRP-555-BMA-BG	SRP-560-BMA-BG	SRP-445-BMB-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	49.4	49.5	49.6	49.7	49.8	49.9	41.22
	voltage at max. power [V]:	41.29	41.55	41.8	42.05	42.31	42.56	34.18
	current at max. power [A]:	12.96	13	13.04	13.08	13.12	13.16	13.03
	short-circuit current (with tolerance±4%) [A]:	13.7	13.81	13.9	14	14.1	14.21	13.66
	max. power (with tolerance±3%) [W]:	535	540	545	550	555	560	445
BNPI condition	max. power (with tolerance±3%) [W]:	586	591	597	602	607	613	487
	open-circuit voltage (with tolerance±3%) [V]:	49.60	49.70	49.80	49.90	50.00	50.10	41.42
	short-circuit current (with tolerance±4%) [A]:	14.99	15.12	15.21	15.32	15.43	15.55	14.95
bifaciality coefficient	ϕV_{oc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕI_{sc} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	ϕP_{max} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	16.58	16.71	16.82	16.94	17.06	17.18	16.53
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	11.2	11.2	11.2	11.2	11.2	11.2	12
Product Electrical Ratings at STC:								
	Module	SRP-450-BMB-BG	SRP-455-BMB-BG	SRP-460-BMB-BG	SRP-465-BMB-BG	SRP-490-BMC-BG	SRP-495-BMC-BG	SRP-500-BMC-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	41.32	41.42	41.52	41.62	45.32	45.43	45.53

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 35 of 62



Jiang

Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

	voltage at max. power [V]:	34.28	34.38	34.48	34.6	37.59	37.7	37.78
	current at max. power [A]:	13.13	13.24	13.34	13.44	13.05	13.15	13.24
	short-circuit current (with tolerance±4%) [A]:	13.76	13.86	13.96	14.06	13.68	13.79	13.89
	max. power (with tolerance±3%) [W]:	450	455	460	465	490	495	500
BNPI condition	max. power (with tolerance±3%) [W]:	493	498	503	509	536	542	547
	open-circuit voltage(tolerance±3%) [V]:	41.52	41.62	41.72	41.82	45.52	45.63	45.73
	short-circuit current (tolerance±4%) [A]:	15.06	15.17	15.28	15.39	14.97	15.09	15.20
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	ϕ_{Pmax} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	16.65	16.77	16.89	17.01	16.55	16.69	16.81
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12	12	12	12	12	12	12

Product Electrical Ratings at STC:								
	Module	SRP-505-BMC-BG	SRP-510-BMC-BG	SRP-400-BMD-BG	SRP-405-BMD-BG	SRP-410-BMD-BG	SRP-415-BMD-BG	SRP-420-BMD-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	45.63	45.75	37.12	37.22	37.32	37.42	37.52
	voltage at max. power [V]:	37.87	37.95	30.81	30.93	31.05	31.16	31.28
	current at max. power [A]:	13.34	13.44	12.99	13.1	13.21	13.32	13.43
	short-circuit current (with tolerance±4%) [A]:	13.99	14.1	13.6	13.7	13.8	13.9	14



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Data form for critical components and material information

	max. power (with tolerance±3%) [W]:	505	510	400	405	410	415	420
BNPI condition	max. power (with tolerance±3%) [W]:	553	558	438	443	449	454	460
	open-circuit voltage (tolerance±3%) [V]:	45.83	45.95	37.32	37.42	37.52	37.62	37.72
	short-circuit current (tolerance±4%) [A]:	15.31	15.43	14.89	14.99	15.10	15.21	15.32
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	ϕ_{Pmax} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	16.93	17.06	16.46	16.58	16.70	16.82	16.94
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12	12	10.8	10.8	10.8	10.8	10.8
Product Electrical Ratings at STC:								
	Module	SRP-575-BMZ-BG	SRP-580-BMZ-BG	SRP-585-BMZ-BG	SRP-590-BMZ-BG	SRP-595-BMZ-BG	SRP-600-BMZ-BG	SRP-605-BMZ-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	53.23	53.43	53.63	53.83	54.03	54.23	54.43
	voltage at max. power [V]:	44.61	44.81	45.01	45.21	45.41	45.61	45.81
	current at max. power [A]:	12.89	12.95	13.01	13.06	13.11	13.16	13.22
	short-circuit current (with tolerance±4%) [A]:	13.75	13.81	13.87	13.93	13.99	14.05	14.11

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 37 of 62



Jiang

Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

	max. power (with tolerance±3%) [W]:	575	580	585	590	595	600	605
BNPI condition	max. power (with tolerance±3%) [W]:	629	635	640	646	651	657	662
	open-circuit voltage (tolerance±3%) [V]:	53.43	53.63	53.83	54.03	54.23	54.43	54.63
	short-circuit current (tolerance±4%) [A]:	15.05	15.12	15.18	15.25	15.31	15.38	15.44
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	ϕ_{Pmax} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	16.64	16.71	16.78	16.86	16.93	17.00	17.07
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	11.4	11.4	11.4	11.4	11.4	11.4	11.4

Product Electrical Ratings at STC:								
	Module	SRP-550-BTA-BG	SRP-555-BTA-BG	SRP-560-BTA-BG	SRP-565-BTA-BG	SRP-570-BTA-BG	SRP-575-BTA-BG	SRP-580-BTA-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	50.9	51.1	51.3	51.5	51.7	51.9	52.1
	voltage at max. power [V]:	42.2	42.4	42.6	42.8	43	43.2	43.4
	current at max. power [A]:	13.04	13.1	13.16	13.21	13.26	13.32	13.37
	short-circuit current (with	13.71	13.77	13.83	13.89	13.95	14.01	14.07



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Data form for critical components and material information

	tolerance \pm 4%) [A]:							
	max. power (with tolerance \pm 3%) [W]:	550	555	560	565	570	575	580
BNPI condition	max. power (with tolerance \pm 3%) [W]:	603	608	614	619	625	630	636
	open-circuit voltage(tolerance \pm 3%) [V]:	50.98	51.18	51.38	51.58	51.78	51.98	52.18
	short-circuit current (tolerance \pm 4%) [A]:	15.03	15.09	15.16	15.22	15.29	15.35	15.42
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	17.00	17.07	17.15	17.22	17.30	17.37	17.45
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Product Electrical Ratings at STC:								
	Module	SRP- 585- BTA- BG	SRP- 590- BTA- BG	SRP- 460- BTB- BG	SRP- 465- BTB- BG	SRP- 470- BTB- BG	SRP- 475- BTB-BG	SRP- 480- BTB- BG
STC condition	open-circuit voltage (with tolerance \pm 3%) [V]:	52.3	52.5	42.4	42.6	42.8	43	43.2
	voltage at max. power [V]:	43.6	43.8	35.2	35.4	35.6	35.8	36
	current at max. power [A]:	13.43	13.48	13.07	13.14	13.21	13.27	13.34

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 39 of 62



Jiang

Legal entity: TÜV SÜD Certification and Testing (China)
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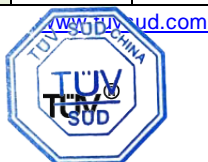


Data form for critical components and material information

	short-circuit current (with tolerance±4%) [A]:	14.13	14.19	13.76	13.82	13.88	13.94	14
	max. power (with tolerance±3%) [W]:	585	590	460	465	470	475	480
BNPI condition	max. power (with tolerance±3%) [W]:	641	647	504	510	515	521	526
	open-circuit voltage(tolerance±3%) [V]:	52.38	52.58	42.48	42.68	42.88	43.08	43.28
	short-circuit current (tolerance±4%) [A]:	15.49	15.55	15.08	15.15	15.21	15.28	15.34
bifaciality coefficient	ϕV_{oc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕI_{sc} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕP_{max} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance±4%) [A]:	17.52	17.60	17.06	17.14	17.21	17.29	17.36
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	11.2	11.2	12	12	12	12	12

Product Electrical Ratings at STC:								
	Module	SRP-485-BTB-BG	SRP-490-BTB-BG	SRP-505-BTC-BG	SRP-510-BTC-BG	SRP-515-BTC-BG	SRP-520-BTC-BG	SRP-525-BTC-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	43.4	43.6	46.8	47	47.2	47.4	47.6
	voltage at max. power [V]:	36.2	36.4	38.8	39	39.2	39.4	39.6

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 40 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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Data form for critical components and material information

	current at max. power [A]:	13.41	13.48	13.02	13.08	13.14	13.2	13.26
	short-circuit current (with tolerance±4%) [A]:	14.06	14.12	13.73	13.79	13.85	13.91	13.97
	max. power (with tolerance±3%) [W]:	485	490	505	510	515	520	525
BNPI condition	max. power (with tolerance±3%) [W]:	532	537	553	559	564	570	575
	open-circuit voltage(tolerance±3%) [V]:	43.48	43.68	46.88	47.08	47.28	47.48	47.68
	short-circuit current (tolerance±4%) [A]:	15.41	15.48	15.05	15.11	15.18	15.25	15.31
bifaciality coefficient	ϕ Voc /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance±4%) [A]:	17.43	17.51	17.03	17.10	17.17	17.25	17.32
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12	12	12	12	12	12	12
Product Electrical Ratings at STC:								
	Module	SRP-530-BTC-BG	SRP-535-BTC-BG	SRP-540-BTC-BG	SRP-415-BTD-BG	SRP-420-BTD-BG	SRP-425-BTD-BG	SRP-430-BTD-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	47.8	48	48.2	38.3	38.5	38.7	38.9
	voltage at max. power [V]:	39.8	40	40.2	31.7	31.9	32.1	32.3

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 41 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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Data form for critical components and material information

	current at max. power [A]:	13.32	13.38	13.44	13.09	13.17	13.24	13.32
	short-circuit current (with tolerance±4%) [A]:	14.03	14.09	14.15	13.75	13.83	13.91	13.99
	max. power (with tolerance±3%) [W]:	530	535	540	415	420	425	430
BNPI condition	max. power (with tolerance±3%) [W]:	581	586	592	455	460	466	471
	open-circuit voltage(tolerance±3%) [V]:	47.88	48.08	48.28	38.38	38.58	38.78	38.98
	short-circuit current (tolerance±4%) [A]:	15.38	15.44	15.51	15.07	15.16	15.25	15.33
bifaciality coefficient	ϕ Voc /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ isc /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance±4%) [A]:	17.40	17.47	17.55	17.05	17.15	17.25	17.35
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12	12	12	10.8	10.8	10.8	10.8

Product Electrical Ratings at STC:								
	Module	SRP-435-BTD-BG	SRP-440-BTD-BG	SRP-600-BTZ-BG	SRP-605-BTZ-BG	SRP-610-BTZ-BG	SRP-615-BTZ-BG	SRP-620-BTZ-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	39.1	39.3	55.24	55.44	55.64	55.84	56.04

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 42 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
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	voltage at max. power [V]:	32.5	32.7	46.02	46.19	46.36	46.56	46.76
	current at max. power [A]:	13.39	13.47	13.04	13.1	13.16	13.21	13.26
	short-circuit current (with tolerance±4%) [A]:	14.07	14.15	13.71	13.77	13.83	13.89	13.95
	max. power (with tolerance±3%) [W]:	435	440	600	605	610	615	620
BNPI condition	max. power (with tolerance±3%) [W]:	477	482	658	663	669	674	680
	open-circuit voltage(tolerance±3%) [V]:	39.18	39.38	55.32	55.52	55.72	55.92	56.12
	short-circuit current (tolerance±4%) [A]:	15.42	15.51	15.03	15.09	15.16	15.22	15.29
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ_{Pmax} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance±4%) [A]:	17.45	17.55	17.00	17.07	17.15	17.22	17.30
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	10.8	10.8	11.4	11.4	11.4	11.4	11.4
Product Electrical Ratings at STC:								
	Module	SRP-625-BTZ-BG	SRP-630-BTZ-BG	SRP-635-BTZ-BG	SRP-590-BMB-BG	SRP-595-BMB-BG	SRP-600-BMB-BG	SRP-605-BMB-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	56.24	56.44	56.64	41.29	41.49	41.69	41.89

Doc No.: 168870 Revision: 4 - released



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Data form for critical components and material information

	voltage at max. power [V]:	46.93	47.13	47.31	34.18	34.38	34.58	34.78
	current at max. power [A]:	13.32	13.37	13.43	17.26	17.31	17.36	17.41
	short-circuit current (with tolerance±4%) [A]:	14.01	14.07	14.13	18.28	18.34	18.4	18.46
	max. power (with tolerance±3%) [W]:	625	630	635	590	595	600	605
BNPI condition	max. power (with tolerance±3%) [W]:	685	690	696	643	649	654	659
	open-circuit voltage(tolerance±3%) [V]:	56.32	56.52	56.72	41.37	41.57	41.77	41.97
	short-circuit current (tolerance±4%) [A]:	15.35	15.42	15.49	19.93	19.99	20.06	20.12
bifaciality coefficient	ϕV_{oc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕI_{sc} /Tolerance±10%	0.8	0.8	0.8	0.7	0.7	0.7	0.7
	ϕP_{max} /Tolerance±10%	0.8	0.8	0.8	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	17.37	17.45	17.52	22.12	22.19	22.26	22.34
	Series Fuse Rating [A]	25	25	25	30	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	11.4	11.4	11.4	13.5	13.5	13.5	13.5

Product Electrical Ratings at STC:								
	Module	SRP-610-BMB-BG	SRP-650-BMC-BG	SRP-655-BMC-BG	SRP-660-BMC-BG	SRP-665-BMC-BG	SRP-670-BMC-BG	SRP-675-BMC-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	42.09	45.48	45.68	45.88	46.08	46.28	46.48



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Data form for critical components and material information

	voltage at max. power [V]:	34.98	37.76	37.96	38.16	38.36	38.56	38.76
	current at max. power [A]:	17.46	17.21	17.25	17.29	17.33	17.37	17.41
	short-circuit current (with tolerance±4%) [A]:	18.52	18.34	18.39	18.44	18.49	18.54	18.59
	max. power (with tolerance±3%) [W]:	610	650	655	660	665	670	675
BNPI condition	max. power (with tolerance±3%) [W]:	665	709	714	719	725	730	736
	open-circuit voltage(tolerance±3%) [V]:	42.17	45.56	45.76	45.96	46.16	46.36	46.56
	short-circuit current (tolerance±4%) [A]:	20.19	19.99	20.05	20.10	20.15	20.21	20.26
bifaciality coefficient	ϕV_{oc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕI_{sc} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	ϕP_{max} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	22.41	22.19	22.25	22.31	22.37	22.43	22.49
	Series Fuse Rating [A]	30	30	30	30	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Product Electrical Ratings at STC:								
	Module	SRP-535-BMD-BG	SRP-540-BMD-BG	SRP-545-BMD-BG	SRP-550-BMD-BG	SRP-475-BME-BG	SRP-480-BME-BG	SRP-485-BME-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	38.9	39.1	39.3	39.5	36.5	36.7	36.9

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 45 of 62



Jiang

Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

	voltage at max. power [V]:	31.55	31.77	31.99	32.21	28.83	29.06	29.29
	current at max. power [A]:	16.96	17	17.04	17.08	16.48	16.52	16.56
	short-circuit current (with tolerance±4%) [A]:	17.89	17.94	17.99	18.04	17.29	17.34	17.39
	max. power (with tolerance±3%) [W]:	535	540	545	550	475	480	485
BNPI condition	max. power (with tolerance±3%) [W]:	583	589	594	600	518	523	529
	open-circuit voltage(tolerance±3%) [V]:	38.98	39.18	39.38	39.58	36.58	36.78	36.98
	short-circuit current (tolerance±4%) [A]:	19.50	19.55	19.61	19.66	18.85	18.90	18.96
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	ϕ_{Pmax} /Tolerance±10%	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BSI condition	short-circuit current (with tolerance±4%) [A]:	21.65	21.71	21.77	21.83	20.92	20.98	21.04
	Series Fuse Rating [A]	30	30	30	30	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.5	13.5	13.5	13.5	13.5	13.5	13.5

Product Electrical Ratings at STC:								
Module	SRP-490-BME-BG	SRP-415-BMF-BG	SRP-420-BMF-BG	SRP-425-BMF-BG	SRP-430-BMF-BG	SRP-620-BTA-BG	SRP-625-BTA-BG	
open-circuit voltage (with	37.1	34.1	34.3	34.5	34.7	52.08	52.28	



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Data form for critical components and material information

STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	29.52	25.94	26.19	26.44	26.68	43.52	43.72
	current at max. power [A]:	16.6	16	16.04	16.08	16.12	14.25	14.3
	short-circuit current (with tolerance \pm 4%) [A]:	17.44	16.69	16.74	16.79	16.84	15.07	15.12
	max. power (with tolerance \pm 3%) [W]:	490	415	420	425	430	620	625
BNPI condition	max. power (with tolerance \pm 3%) [W]:	534	452	458	463	469	687	693
	open-circuit voltage (tolerance \pm 3%) [V]:	37.18	34.18	34.38	34.58	34.78	52.16	52.36
	short-circuit current (tolerance \pm 4%) [A]:	19.01	18.19	18.25	18.30	18.36	16.70	16.75
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.7	0.7	0.7	0.7	0.7	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.7	0.7	0.7	0.7	0.7	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	21.10	20.19	20.26	20.32	20.38	18.69	18.75
	Series Fuse Rating [A]	30	30	30	30	30	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.5	13.5	13.5	13.5	13.5	12.7	12.7
Product Electrical Ratings at STC:								
	Module	SRP-630-BTA-BG	SRP-635-BTA-BG	SRP-640-BTA-BG	SRP-570-BTC-BG	SRP-575-BTC-BG	SRP-580-BTC-BG	SRP-585-BTC-BG
	open-circuit voltage (with	52.48	52.68	52.88	47.8	48	48.2	48.4



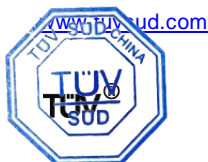
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STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	43.92	44.12	44.32	40.06	40.26	40.46	40.65
	current at max. power [A]:	14.35	14.4	14.45	14.23	14.28	14.34	14.39
	short-circuit current (with tolerance \pm 4%) [A]:	15.17	15.22	15.27	15.1	15.15	15.2	15.25
	max. power (with tolerance \pm 3%) [W]:	630	635	640	570	575	580	585
BNPI condition	max. power (with tolerance \pm 3%) [W]:	698	704	709	632	637	643	648
	open-circuit voltage (tolerance \pm 3%) [V]:	52.56	52.76	52.96	47.88	48.08	48.28	48.48
	short-circuit current (tolerance \pm 4%) [A]:	16.81	16.86	16.92	16.73	16.79	16.84	16.90
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	18.81	18.87	18.93	18.72	18.79	18.85	18.91
	Series Fuse Rating [A]	25	25	25	25	25	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12.7	12.7	12.7	12.5	12.5	12.5	12.5

Product Electrical Ratings at STC:								
Module	SRP-465-BTD-BG	SRP-470-BTD-BG	SRP-475-BTD-BG	SRP-480-BTD-BG	SRP-550-BTB-BG	SRP-555-BTB-BG	SRP-560-BTB-BG	
open-circuit voltage (with	39.15	39.35	39.55	39.75	44.27	44.47	44.67	



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STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	32.7	32.9	33.1	33.3	36.81	37.01	37.21
	current at max. power [A]:	14.22	14.29	14.35	14.42	14.95	15	15.05
	short-circuit current (with tolerance \pm 4%) [A]:	15.06	15.11	15.16	15.21	15.83	15.88	15.91
	max. power (with tolerance \pm 3%) [W]:	465	470	475	480	550	555	560
BNPI condition	max. power (with tolerance \pm 3%) [W]:	515	521	526	532	609	615	620
	open-circuit voltage (tolerance \pm 3%) [V]:	39.23	39.43	39.63	39.83	44.35	44.55	44.75
	short-circuit current (tolerance \pm 4%) [A]:	16.69	16.74	16.80	16.85	17.54	17.60	17.63
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	18.67	18.74	18.80	18.86	19.63	19.69	19.73
	Series Fuse Rating [A]	25	25	25	25	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	11.5	11.5	11.5	11.5	12.7	12.7	12.7
Product Electrical Ratings at STC:								
	Module	SRP-565-BTB-BG	SRP-605-BTC-BG	SRP-610-BTC-BG	SRP-615-BTC-BG	SRP-620-BTC-BG	SRP-625-BTC-BG	SRP-495-BTD-BG
	open-circuit voltage (with	44.87	48.72	48.92	49.12	49.32	49.52	39.83

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 49 of 62



Jiang

Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



Data form for critical components and material information

STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	37.41	40.51	40.71	40.91	41.11	41.31	33.11
	current at max. power [A]:	15.11	14.94	14.99	15.04	15.09	15.14	14.96
	short-circuit current (with tolerance \pm 4%) [A]:	15.96	15.82	15.87	15.92	15.97	16.02	15.83
	max. power (with tolerance \pm 3%) [W]:	565	605	610	615	620	625	495
BNPI condition	max. power (with tolerance \pm 3%) [W]:	626	670	676	681	687	693	548
	open-circuit voltage (tolerance \pm 3%) [V]:	44.95	48.80	49.00	49.20	49.40	49.60	39.91
	short-circuit current (tolerance \pm 4%) [A]:	17.68	17.53	17.58	17.64	17.69	17.75	17.54
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	19.79	19.62	19.68	19.74	19.80	19.86	19.63
	Series Fuse Rating [A]	30	30	30	30	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12.7	12	12	12	12	12	13.4

Product Electrical Ratings at STC:								
Module	SRP-500-BTD-BG	SRP-505-BTD-BG	SRP-510-BTD-BG	SRP-440-BTE-BG	SRP-445-BTE-BG	SRP-450-BTE-BG	SRP-455-BTE-BG	SRP-455-BTE-BG
open-circuit voltage (with	40.03	40.23	40.43	35.38	35.58	35.78	35.98	35.98



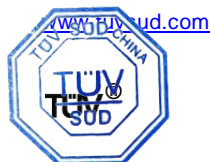
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STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	33.31	33.51	33.71	29.41	29.61	29.81	30.01
	current at max. power [A]:	15.02	15.07	15.13	14.97	15.03	15.1	15.17
	short-circuit current (with tolerance \pm 4%) [A]:	15.88	15.93	15.98	15.8	15.85	15.9	15.95
	max. power (with tolerance \pm 3%) [W]:	500	505	510	440	445	450	455
BNPI condition	max. power (with tolerance \pm 3%) [W]:	554	560	565	488	493	499	504
	open-circuit voltage (tolerance \pm 3%) [V]:	40.11	40.31	40.51	35.46	35.66	35.86	36.06
	short-circuit current (tolerance \pm 4%) [A]:	17.60	17.65	17.71	17.51	17.56	17.62	17.67
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	19.69	19.75	19.82	19.59	19.65	19.72	19.78
	Series Fuse Rating [A]	30	30	30	30	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.4	13.4	13.4	13.5	13.5	13.5	13.5
Product Electrical Ratings at STC:								
	Module	SRP-385-BTF-BG	SRP-390-BTF-BG	SRP-395-BTF-BG	SRP-630-BTB-BG	SRP-635-BTB-BG	SRP-640-BTB-BG	SRP-645-BTB-BG
	open-circuit voltage (with	30.93	31.13	31.33	43.89	44.09	44.29	44.49

Doc No.: 168870 Revision: 4 - released



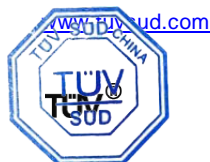
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STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	25.71	25.91	26.11	36.65	36.85	37.05	37.25
	current at max. power [A]:	14.98	15.06	15.13	17.2	17.24	17.28	17.32
	short-circuit current (with tolerance \pm 4%) [A]:	15.83	15.88	15.93	18.26	18.3	18.34	18.38
	max. power (with tolerance \pm 3%) [W]:	385	390	395	630	635	640	645
BNPI condition	max. power (with tolerance \pm 3%) [W]:	427	432	438	690	696	701	707
	open-circuit voltage (tolerance \pm 3%) [V]:	31.01	31.21	31.41	43.97	44.17	44.37	44.57
	short-circuit current (tolerance \pm 4%) [A]:	17.54	17.60	17.65	20.01	20.06	20.10	20.14
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	19.63	19.69	19.75	22.64	22.69	22.74	22.79
	Series Fuse Rating [A]	30	30	30	35	35	35	35
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.8	13.8	13.8	11.3	11.3	11.3	11.3

Product Electrical Ratings at STC:								
Module	SRP-690-BTC-BG	SRP-695-BTC-BG	SRP-700-BTC-BG	SRP-705-BTC-BG	SRP-710-BTC-BG	SRP-565-BTD-BG	SRP-570-BTD-BG	
open-circuit voltage (with	48.1	48.3	48.5	48.7	48.9	39.42	39.62	



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Data form for critical components and material information

STC condition	tolerance \pm 3%) [V]:							
	voltage at max. power [V]:	40.13	40.33	40.53	40.73	40.93	32.96	33.16
	current at max. power [A]:	17.2	17.24	17.28	17.31	17.35	17.15	17.19
	short-circuit current (with tolerance \pm 4%) [A]:	18.24	18.28	18.32	18.36	18.4	18.26	18.3
	max. power (with tolerance \pm 3%) [W]:	690	695	700	705	710	565	570
BNPI condition	max. power (with tolerance \pm 3%) [W]:	756	762	767	773	778	619	625
	open-circuit voltage (tolerance \pm 3%) [V]:	48.18	48.38	48.58	48.78	48.98	39.50	39.70
	short-circuit current (tolerance \pm 4%) [A]:	19.99	20.03	20.08	20.12	20.17	20.01	20.06
bifaciality coefficient	ϕ Voc /Tolerance \pm 5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ Isc /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ Pmax /Tolerance \pm 10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance \pm 4%) [A]:	22.62	22.67	22.72	22.77	22.82	22.64	22.69
	Series Fuse Rating [A]	35	35	35	35	35	35	35
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12.5	12.5	12.5	12.5	12.5	13.1	13.1
Product Electrical Ratings at STC:								
	Module	SRP-575-BTD-BG	SRP-580-BTD-BG	SRP-500-BTE-BG	SRP-505-BTE-BG	SRP-510-BTE-BG	SRP-515-BTE-BG	SRP-440-BTF-BG

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 53 of 62



Jiang

Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
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 Name of Project Handler: Ning Tang

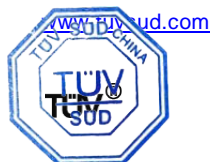


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STC condition	open-circuit voltage (with tolerance±3%) [V]:	39.82	40.02	34.87	35.07	35.27	35.47	30.66
	voltage at max. power [V]:	33.36	33.56	29.08	29.28	29.48	29.68	25.59
	current at max. power [A]:	17.24	17.29	17.2	17.25	17.31	17.36	17.2
	short-circuit current (with tolerance±4%) [A]:	18.34	18.38	18.24	18.28	18.32	18.36	18.26
	max. power (with tolerance±3%) [W]:	575	580	500	505	510	515	440
BNPI condition	max. power (with tolerance±3%) [W]:	630	636	548	553	559	564	482
	open-circuit voltage(tolerance±3%) [V]:	39.90	40.10	34.95	35.15	35.35	35.55	30.74
	short-circuit current (tolerance±4%) [A]:	20.10	20.14	19.99	20.03	20.08	20.12	20.01
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ_{Pmax} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with tolerance±4%) [A]:	22.74	22.79	22.62	22.67	22.72	22.77	22.64
	Series Fuse Rating [A]	35	35	35	35	35	35	35
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.1	13.1	13.4	13.4	13.4	13.4	13.7

Product Electrical Ratings at STC:

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 54 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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Data form for critical components and material information

	Module	SRP-445-BTF-BG	SRP-450-BTF-BG	SRP-635-BHB-BG	SRP-640-BHB-BG	SRP-645-BHB-BG	SRP-650-BHB-BG	SRP-655-BHB-BG
STC condition	open-circuit voltage (with tolerance $\pm 3\%$) [V]:	30.86	31.06	45.6	45.76	45.92	46.08	46.24
	voltage at max. power [V]:	25.79	25.99	38.31	38.47	38.63	38.79	38.95
	current at max. power [A]:	17.26	17.32	16.58	16.64	16.7	16.76	16.82
	short-circuit current (with tolerance $\pm 4\%$) [A]:	18.3	18.34	17.42	17.48	17.54	17.6	17.66
	max. power (with tolerance $\pm 3\%$) [W]:	445	450	635	640	645	650	655
BNPI condition	max. power (with tolerance $\pm 3\%$) [W]:	488	493	712	718	723	729	735
	open-circuit voltage (with tolerance $\pm 3\%$) [V]:	30.94	31.14	45.68	45.84	46.00	46.16	46.32
	short-circuit current (with tolerance $\pm 4\%$) [A]:	20.06	20.10	19.54	19.60	19.67	19.74	19.81
bifaciality coefficient	ϕV_{oc} /Tolerance $\pm 5\%$	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕI_{sc} /Tolerance $\pm 10\%$	0.8	0.8	0.9	0.9	0.9	0.9	0.9
	ϕP_{max} /Tolerance $\pm 10\%$	0.8	0.8	0.9	0.9	0.9	0.9	0.9
BSI condition	short-circuit current (with tolerance $\pm 4\%$) [A]:	22.69	22.74	22.12	22.20	22.28	22.35	22.43
	Series Fuse Rating [A]	35	35	35	35	35	35	35
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.7	13.7	11.3	11.3	11.3	11.3	11.3



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Data form for critical components and material information

Product Electrical Ratings at STC:								
	Module	SRP-695-BHC-BG	SRP-700-BHC-BG	SRP-705-BHC-BG	SRP-710-BHC-BG	SRP-715-BHC-BG	SRP-720-BHC-BG	SRP-570-BHD-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	50.00	50.16	50.32	50.48	50.64	50.80	41.04
	voltage at max. power [V]:	41.98	42.14	42.30	42.46	42.62	42.78	34.48
	current at max. power [A]:	16.58	16.64	16.70	16.76	16.82	16.88	16.54
	short-circuit current (with tolerance±4%) [A]:	17.38	17.44	17.50	17.56	17.62	17.68	17.46
	max. power (with tolerance±3%) [W]:	695	700	705	710	715	720	570
BNPI condition	max. power (with tolerance±3%) [W]:	779	785	791	796	802	807	639
	open-circuit voltage(tolerance±3%) [V]:	50.08	50.24	50.40	50.56	50.72	50.88	41.12
	short-circuit current (tolerance±4%) [A]:	19.49	19.56	19.63	19.69	19.76	19.83	19.58
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	ϕ_{Pmax} /Tolerance±10%	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BSI condition	short-circuit current (with tolerance±4%) [A]:	22.07	22.15	22.23	22.30	22.38	22.45	22.17
	Series Fuse Rating [A]	35	35	35	35	35	35	35
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500



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Data form for critical components and material information

	Min. creepage distance [mm]	11	11	11	11	11	11	13.1
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Product Electrical Ratings at STC:								
	Module	SRP-575-BHD-BG	SRP-580-BHD-BG	SRP-585-BHD-BG	SRP-590-BHD-BG	SRP-505-BHE-BG	SRP-510-BHE-BG	SRP-515-BHE-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	41.20	41.36	41.52	41.68	36.32	36.48	36.64
	voltage at max. power [V]:	34.64	34.80	34.96	35.12	30.49	30.65	30.81
	current at max. power [A]:	16.60	16.67	16.74	16.80	16.57	16.64	16.72
	short-circuit current (with tolerance±4%) [A]:	17.52	17.58	17.64	17.70	17.37	17.43	17.49
	max. power (with tolerance±3%) [W]:	575	580	585	590	505	510	515
BNPI condition	max. power (with tolerance±3%) [W]:	645	650	656	662	566	572	578
	open-circuit voltage (with tolerance±3%) [V]:	41.28	41.44	41.60	41.76	36.40	36.56	36.72
	short-circuit current (with tolerance±4%) [A]:	19.65	19.72	19.78	19.85	19.48	19.55	19.62
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	ϕ_{Pmax} /Tolerance±10%	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BSI condition	short-circuit current (with tolerance±4%) [A]:	22.25	22.33	22.40	22.48	22.06	22.14	22.21
	Series Fuse Rating [A]	35	35	35	35	35	35	35

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 57 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.1	13.1	13.1	13.1	13.4	13.4	13.4

Product Electrical Ratings at STC:								
	Module	SRP-520-BHE-BG	SRP-445-BHF-BG	SRP-450-BHF-BG	SRP-455-BHF-BG	SRP-460-BHF-BG	SRP-595-BTA-BG	SRP-495-BTB-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	36.8	31.92	32.08	32.24	32.4	52.70	43.80
	voltage at max. power [V]:	30.97	26.82	26.98	27.14	27.3	44.00	36.60
	current at max. power [A]:	16.8	16.6	16.68	16.77	16.85	13.54	13.55
	short-circuit current (with tolerance±4%) [A]:	17.55	17.44	17.5	17.56	17.62	14.25	14.18
	max. power (with tolerance±3%) [W]:	520	445	450	455	460	595	495
BNPI condition	max. power (with tolerance±3%) [W]:	583	499	505	510	516	652	543
	open-circuit voltage (with tolerance±3%) [V]:	36.88	32.00	32.16	32.32	32.48	52.78	43.88
	short-circuit current (with tolerance±4%) [A]:	19.68	19.56	19.63	19.69	19.76	15.62	15.54
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.9	0.9	0.9	0.9	0.9	0.8	0.8
	ϕ_{Pmax} /Tolerance±10%	0.9	0.9	0.9	0.9	0.9	0.8	0.8
BSI condition	short-circuit current (with tolerance±4%) [A]:	22.29	22.15	22.23	22.30	22.38	17.67	17.58

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 58 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang



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	Series Fuse Rating [A]	35	35	35	35	35	25	25
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.4	13.7	13.7	13.7	13.7	11.2	12

Product Electrical Ratings at STC:								
	Module	SRP-545-BTC-BG	SRP-445-BTD-BG	SRP-640-BTZ-BG	SRP-645-BTZ-BG	SRP-570-BTB-BG	SRP-630-BTC-BG	SRP-515-BTD-BG
STC condition	open-circuit voltage (with tolerance±3%) [V]:	48.40	39.50	56.84	57.04	45.07	49.72	40.63
	voltage at max. power [V]:	40.40	32.90	47.49	47.68	37.61	41.51	33.91
	current at max. power [A]:	13.50	13.54	13.48	13.53	15.16	15.19	15.19
	short-circuit current (with tolerance±4%) [A]:	14.21	14.23	14.19	14.25	16.01	16.07	16.03
	max. power (with tolerance±3%) [W]:	545	445	640	645	570	630	515
BNPI condition	max. power (with tolerance±3%) [W]:	597	488	701	707	632	698	571
	open-circuit voltage (tolerance±3%) [V]:	48.48	39.58	56.92	57.12	45.15	49.80	40.71
	short-circuit current (tolerance±4%) [A]:	15.57	15.60	15.55	15.62	17.74	17.81	17.76
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ_{Pmax} /Tolerance±10%	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BSI condition	short-circuit current (with	17.62	17.65	17.60	17.67	19.85	19.93	19.88

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 59 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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	tolerance $\pm 4\%$) [A]:							
	Series Fuse Rating [A]	25	25	25	25	30	30	30
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	12	10.8	11.4	11.4	12.7	12	13.4

Product Electrical Ratings at STC:								
	Module	SRP-460-BTE-BG	SRP-400-BTF-BG	SRP-625-BTB-BG	SRP-650-BTB-BG	SRP-685-BTC-BG	SRP-715-BTC-BG	SRP-560-BTD-BG
STC condition	open-circuit voltage (with tolerance $\pm 3\%$) [V]:	36.18	31.53	43.69	44.69	47.90	49.10	39.22
	voltage at max. power [V]:	30.21	26.31	36.45	37.45	39.93	41.13	32.76
	current at max. power [A]:	15.23	15.21	17.15	17.36	17.16	17.39	17.10
	short-circuit current (with tolerance $\pm 4\%$) [A]:	16.00	15.98	18.22	18.42	18.20	18.44	18.22
	max. power (with tolerance $\pm 3\%$) [W]:	460	400	625	650	685	715	560
BNPI condition	max. power (with tolerance $\pm 3\%$) [W]:	510	443	685	712	751	784	614
	open-circuit voltage (tolerance $\pm 3\%$) [V]:	36.26	31.61	43.77	44.77	47.98	49.18	39.30
	short-circuit current (tolerance $\pm 4\%$) [A]:	17.73	17.71	19.97	20.19	19.95	20.21	19.97
bifaciality coefficient	ϕ_{Voc} /Tolerance $\pm 5\%$	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	ϕ_{Isc} /Tolerance $\pm 10\%$	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	ϕ_{Pmax} /Tolerance $\pm 10\%$	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 60 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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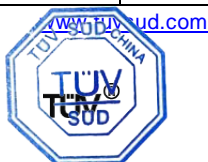


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BSI condition	short-circuit current (with tolerance±4%) [A]:	19.84	19.82	22.59	22.84	22.57	22.87	22.59
	Series Fuse Rating [A]	30	30	35	35	35	35	35
	Maximum System Voltage	1500	1500	1500	1500	1500	1500	1500
	Min. creepage distance [mm]	13.5	13.8	11.3	11.3	12.5	12.5	13.1

Product Electrical Ratings at STC:								
	Module	SRP-585-BTD-BG	SRP-520-BTE-BG	SRP-435-BTF-BG	SRP-455-BTF-BG			
STC condition	open-circuit voltage (with tolerance±3%) [V]:	40.22	35.67	30.46	31.26			
	voltage at max. power [V]:	33.76	29.88	25.39	26.19			
	current at max. power [A]:	17.33	17.41	17.14	17.38			
	short-circuit current (with tolerance±4%) [A]:	18.42	18.40	18.22	18.38			
	max. power (with tolerance±3%) [W]:	585	520	435	455			
BNPI condition	max. power (with tolerance±3%) [W]:	641	570	477	499			
	open-circuit voltage (tolerance±3%) [V]:	40.30	35.75	30.54	31.34			
	short-circuit current (tolerance±4%) [A]:	20.19	20.17	19.97	20.14			
bifaciality coefficient	ϕ_{Voc} /Tolerance±5%	685	0.99	0.99	0.99			
	ϕ_{Isc} /Tolerance±10%	43.77	0.8	0.8	0.8			

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 61 of 62



Legal entity: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
 Address of legal entity: Street:3-13F, No. 151 Heng Tong Road
 City, Country: Shanghai, P. R. China
 Name of Project Handler: Ning Tang

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Form



Product Service

Data form for critical components and material information

	ϕP_{max} /Tolerance $\pm 10\%$	19.97	0.8	0.8	0.8			
BSI condition	short-circuit current (with tolerance $\pm 4\%$) [A]:	22.84	22.82	22.59	22.79			
	Series Fuse Rating [A]	35	35	35	35			
	Maximum System Voltage	1500	1500	1500	1500			
	Min. creepage distance [mm]	13.1	13.4	13.7	13.7			

Signature of the Certification Holder:

Name, seal and signature of Certificate Holder:	
Date:	

Doc No.: 168870 Revision: 4 - released

Project-No./Report-No.: 704062310808
 Revision / Version: 06A1
 Date: 2024-12-13
 Page 62 of 62



Legal entity: TÜV SÜD Certification and Testing (China)
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