

Form

Data form for critical components and material information



Product Service

Applicant name and address..... :	Sunshare Technology Co.,Ltd. (CBW No.: 127292) 2nd Floor, Building A, No.2999 Jiyin Avenue, Jiangning District, 211100 Nanjing City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA
Manufacturer name and address . :	Sunshare Technology Co.,Ltd. (CBW No.: 127292) 2nd Floor, Building A, No.2999 Jiyin Avenue, Jiangning District, 211100 Nanjing City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA
Name and address of factory / factories..... :	Newway Energy Co.,LTD. (CBW No.: 124505) Building D5, Industrial Workshop Standard Factory, Hutang Science and Technology Industrial Park, Hutang Town, Wujin District, 213162 Changzhou City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA
Project-No./Report-No. :	704062474201-00
Test item description..... :	See the corresponding test report
Model/Type reference :	182.2 × 61.25(mm) N-Type cell modules: 76 cells module: a) SR-MxxxT-64 (xxx=190 to 200, in steps of 5) 182.2 × 91.875(mm) N-Type cell modules: 72 cells module: b) SR-MxxxT-66 (xxx= 275 to 285, in steps of 5) xxx stands for rated output power at STC.
Device type :	Mono-crystalline Silicon Photovoltaic (PV) Module

Ratings :	See below electrical parameter table
Overvoltage category :	☐ I / ☐ II / ☒ III / ☐ IV / ☐ N/A
Pollution degree :	☒ 1 / ☐ 2 / ☐ 3 / ☐ 4 / ☐ N/A
Class of protection..... :	☐ Class I (PE connected) ☒ Class II (isolated) ☐ Class III ☐ Others:

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	☐ N/A
Product with functional earthing :	☐ Yes ☒ N/A
Environmental conditions / Maximum ambient temperature (°C)..... :	-40~+70
Equipment mobility / Classification of installation and use..... :	☐ transportable / ☐ portable / ☐ stationary / ☐ mobile / ☐ fixed / ☒ permanently installed / ☐ hand-held / ☐ body-worn / ☐ building-in / ☒ Others: ≤2000 m above sea level
Overall size of equipment (mm)..... :	a): 1236 x 766 x 30 [mm] b): 1166 x 1134 x 30 [mm]
Mass of equipment (kg)..... :	a) 7.5 kg (approx) b) 9.7 kg (approx)
Data communication ports: ☒ N/A	
Wired ports :	☒ N/A ☐ USB ☐ LAN ☐ DALI ☐ other:
Wireless ports :	☒ N/A ☐ Wifi ☐ Bluetooth ☐ NFC ☐ 4G/LTE ☐ 5G ☐ Other:
Data Storage/ Processing :	☒ N/A ☐ Local ☐ Cloud

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

General product information and other remarks:
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Main label / Warning Markings:	Model Type: SR-M200T-64 SUNSHARE® <table> <tr><td>Maximum Power(Pmax)</td><td>200W(±3%)</td></tr> <tr><td>Maximum Power Voltage (Vmp)</td><td>45.88V</td></tr> <tr><td>Maximum Power Current (Imp)</td><td>4.36A</td></tr> <tr><td>Open-Circuit Voltage (Voc)</td><td>55.10V(±5%)</td></tr> <tr><td>Short-Circuit Current (Isc)</td><td>4.58A(±3%)</td></tr> <tr><td>Maximum Series Fuse</td><td>28A</td></tr> <tr><td>Maximum System Voltage</td><td>1000VDC</td></tr> <tr><td>Power Selection</td><td>0→5W</td></tr> <tr><td>Min. Design Load</td><td>+1600Pa/-1600Pa</td></tr> <tr><td>Module (T98) Max</td><td>70℃</td></tr> <tr><td>Safety Class</td><td>Class II</td></tr> <tr><td>Connector Type</td><td>M2-slim-abcd</td></tr> <tr><td>Connector Manufacture</td><td>NIU-Power Co., Ltd</td></tr> <tr><td>Weight</td><td>7.5Kg</td></tr> <tr><td>Dimension(HxWxD)</td><td>1236*766*30mm</td></tr> <tr><td colspan="2">STC:Irradiance 1000W/m²,Cell Temperature 25℃,Air Mass AM=1.5</td></tr> </table> WARNING: Only qualified personnel should install or perform maintenance work on these modules. This unit produces electricity if exposed to light. Follow all applicable electrical safety precautions. Do not disconnect when loading. Sunshare Technology Co., Ltd. Address:No.2999 Jiyin Avenue,Jiangning District,Nanjing P. R.China Web: http://www.sunsharetek.com E-Mail: service@sunsharetek.com Made in China Model Type: SR-M285T-66 SUNSHARE® <table> <tr><td>Maximum Power(Pmax)</td><td>285W(±3%)</td></tr> <tr><td>Maximum Power Voltage (Vmp)</td><td>44.75V</td></tr> <tr><td>Maximum Power Current (Imp)</td><td>6.37A</td></tr> <tr><td>Open-Circuit Voltage (Voc)</td><td>52.34V(±5%)</td></tr> <tr><td>Short-Circuit Current (Isc)</td><td>6.88A(±3%)</td></tr> <tr><td>Maximum Series Fuse</td><td>28A</td></tr> <tr><td>Maximum System Voltage</td><td>1000VDC</td></tr> <tr><td>Power Selection</td><td>0→5W</td></tr> <tr><td>Min. Design Load</td><td>+1600Pa/-1600Pa</td></tr> <tr><td>Module (T98) Max</td><td>70℃</td></tr> <tr><td>Safety Class</td><td>Class II</td></tr> <tr><td>Connector Type</td><td>M2-slim-abcd</td></tr> <tr><td>Connector Manufacture</td><td>NIU-Power Co., Ltd</td></tr> <tr><td>Weight</td><td>9.7Kg</td></tr> <tr><td>Dimension(HxWxD)</td><td>1166*1134*30mm</td></tr> <tr><td colspan="2">STC:Irradiance 1000W/m²,Cell Temperature 25℃,Air Mass AM=1.5</td></tr> </table> WARNING: Only qualified personnel should install or perform maintenance work on these modules. This unit produces electricity if exposed to light. Follow all applicable electrical safety precautions. Do not disconnect when loading. Sunshare Technology Co., Ltd. Address:No.2999 Jiyin Avenue,Jiangning District,Nanjing P. R.China Web: http://www.sunsharetek.com E-Mail: service@sunsharetek.com Made in China	Maximum Power(Pmax)	200W(±3%)	Maximum Power Voltage (Vmp)	45.88V	Maximum Power Current (Imp)	4.36A	Open-Circuit Voltage (Voc)	55.10V(±5%)	Short-Circuit Current (Isc)	4.58A(±3%)	Maximum Series Fuse	28A	Maximum System Voltage	1000VDC	Power Selection	0→5W	Min. Design Load	+1600Pa/-1600Pa	Module (T98) Max	70℃	Safety Class	Class II	Connector Type	M2-slim-abcd	Connector Manufacture	NIU-Power Co., Ltd	Weight	7.5Kg	Dimension(HxWxD)	1236*766*30mm	STC:Irradiance 1000W/m²,Cell Temperature 25℃,Air Mass AM=1.5		Maximum Power(Pmax)	285W(±3%)	Maximum Power Voltage (Vmp)	44.75V	Maximum Power Current (Imp)	6.37A	Open-Circuit Voltage (Voc)	52.34V(±5%)	Short-Circuit Current (Isc)	6.88A(±3%)	Maximum Series Fuse	28A	Maximum System Voltage	1000VDC	Power Selection	0→5W	Min. Design Load	+1600Pa/-1600Pa	Module (T98) Max	70℃	Safety Class	Class II	Connector Type	M2-slim-abcd	Connector Manufacture	NIU-Power Co., Ltd	Weight	9.7Kg	Dimension(HxWxD)	1166*1134*30mm	STC:Irradiance 1000W/m²,Cell Temperature 25℃,Air Mass AM=1.5	
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Description of model differences:	See the corresponding test report																																																																
General information / Intended use:	See the corresponding test report																																																																
Protective earth connection:	N/A																																																																
Drawing(s) / Picture(s):	See the corresponding test report																																																																

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Additional information:

Types of terminations:

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

Protection devices:

By-pass Diode ☒
Fuse ☐
Other ☐

Fire safety class according to UL790:

Class A ☐
Class B ☐
Class C ☒

Frame:

Framed ☒
Frameless ☐

Designed mechanical load and safety factor:

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

Module Design - Minimum Distances:

Between cells: 1.0 mm
Between cell and edge of laminate: 12.0 mm;
Between any current carrying part and edge of
laminate: 12.0 mm

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Serial No.bar code:

AA	X	X	XX	XX	XX	XX	XX	XXXX
								9: Production module number
								8: Production date of the module
								7: Production month of the module
								6: Production year of the module
								5: Foundry manufacturer
								4: Module type
								3: Battery type
								2: Sale area
								1: Company name

No.	Corresponding item	Description
1	AA	Relate to serial name SM- SunShare module.....
2	X	Relate to sales area 1- export to Europe 2- sale in China 3- experimental module
3	X	Relate to the type of battery 1- PERC 2- Topcon 3- HJT 4- BC
4	XX	Relate to the type of module, first number is the row of battery, second number is the column of battery. 64- 6 row and 4 column 66- 6 row and 6 column
5	XX	Relate to Foundry manufacturer 01- Changzhou Newway Energy Co., Ltd. 02- Zhejiang Jiake New Energy Technology Co., Ltd.
6	XX	Relate to production year of the module, define as the last two numbers of production year + 18 42- produce in 2024 (24+18) 43- produce in 2024 (25+18) And so on
7	XX	Relate to production month of the module, define as the production month + 18 22- produce in April (04+18) 23-produce in May (05+18)
		 And so on
8	XX	Relate to production date of the module, define as the production date + 18 20- 2 (02+18) 21- 3 (03+18)
9	XXXX	Relate to production running number of the module 01- First module of the production 02- Second module of the production And so on

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Critical components and material information:

Kind of component	Manufacturer	Mechanical, electrical and chemical specification	Test report and/or mark from
1 cell	Chuzhou jietai new energy technology Co.,Ltd.	Cell type: CZJT-182M-16D1, 16bb, TOPCon type cell Mono-Crystalline Silicon Solar cell Cell dimensions: L x W: 182.2 x 61.25 (mm), 1/3 cut Thickness: 130±10% (µm) Cell area: 111.57 (cm²) Cell type: CZJT-182M-16D1, 16bb, TOPCon type cell Mono-Crystalline Silicon Solar cell Cell dimensions: L x W: 182.2 x 91.875 (mm), 1/2 cut Thickness: 130±10% (µm) Cell area: 167.355 (cm²)	Tested with appliance
2 Superstrate	IRICO Group New Energy Co., Ltd.	Material: AR Coated Tempered Glass Thickness: 1.6 (mm)	Tested with appliance
3 Substrate (Backsheet)	Jolywood (Suzhou) Sunwatt Co., Ltd	Type: FFC-JW3010plus Material: FFC (EVA side) /PET/FFC (Air side) Thickness:0.12mm/0.285mm/0.13mm Total Thickness: 0.310 (mm), black colar	Tested with appliance
4 Encapsulant	Hangzhou First Applied Material Co., Ltd	Type: TF4 (between glass and solar cell), POE Thickness: 0.50±0.05mm	Tested with appliance
		Type: F806PS (between solar cell and rear cover), EVA Thickness: 0.50±0.05mm	Tested with appliance
5 Junction box	NIU-Power(Suzhou) Corporation	Type: Q18L-plus(p=2 or 3, l=1 or 2, u=1 or 2, s=1 or 2) Rated voltage =1500VDC Rated current =13A	TÜV SÜD B 082630 0026
Potting Material	Huitian New Materials Co., Ltd.	Type: 5299W-S, black	Tested with appliance
Adhesive for junction box	Huitian New Materials Co., Ltd.	Type: HT906Z, black	Tested with appliance
Cable	SUZHOU YONGHAO CABLE CO.,LTD	Type: 62930 131 1x4mm²/2x4mm²	TÜV SÜD B B0954640006
	NIU-Power(Suzhou) Corporation	Type: 62930 131 1x4mm²/2x4mm²	TÜV SÜD B B1131210008
Connector	Staubli Electrical Connectors AG	PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR, 1500VDC,45A PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy,	TÜV Rheinland R60127169

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Kind of component	Manufacturer	Mechanical, electrical and chemical specification	Test report and/or mark from
		1500VDC,45A	
	Staubli Electrical Connectors AG	PV-KST4/xy-UR, PV-KBT4/xy-UR, 1000VDC,35A	TÜV Rheinland R60127169
	NIU-Power(Suzhou) Corporation	M2-slim-abcd,1000V DC,25A or 40A	TÜV SÜD B 113121 0009
	NIU-Power(Suzhou) Corporation	A4 Max,1500V,35A	TÜV SÜD B 113121 0002
	Jiangxi Jinko PV Material Co.,Ltd.	PV-JK03M2, 1500V,45A	TÜV SÜD B 1131210008
Bypass diode	PAN JIT INTERNATIONAL INC	Type: 30SQ050,IF(AV) =30A, VRRM =50V, Tj=200℃,150mil	Tested with appliance
6 Cell interconnector	Wuxi Mingxie Industrial Technology Co., Ltd.	Coating: Sn60Pb40 Color: silvery Cross section [mm]: 0.17*0.38mm Coating thickness: 0.025±0.005mm	Tested with appliance
7 String connector	Wuxi Mingxie Industrial Technology Co., Ltd.	Dimension:0.30*4.0 (mm) Color: black Coating composition: Sn60Pb40 , Tu1(Cu≥99.95%) Coating thickness: 0.025±0.005mm	Tested with appliance
8 Fluxing material	Asahi Solder Technology (Wuxi) Co., Ltd.	Type: SF105	Tested with appliance
9 Frame	Jiangsu Yuejia Metal Technology Co., Ltd.	Aluminum profile 6005-T6, black cross section H x W: Long side 30x16mm Short side 30x25mm	Tested with appliance
10 Adhesive for frame	Huitian New Materials Co., Ltd.	Type: HT906Z, black	Tested with appliance
11 Insulation material between string connectors	N/A	N/A	N/A or tested with appliance
12 Fixing tape	3M	type: UV-1	Tested with appliance
13 Label	Anhui Mingcheng Intelligent Technology Co., Ltd.	Type: AT-E BA024	Tested with appliance



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Electrical Parameter Table:

Product Electrical Ratings at STC:					
Module	SR-M190T-64	SR-M195T-64	SR-M200T-64		
open-circuit voltage [V]: (tolerance)	53.43 ±5%	54.34 ±5%	55.10 ±5%		
short-circuit current [A]: (tolerance)	4.52 ±3%	4.56 ±3%	4.58 ±3%		
voltage at max. power [V]:	44.19	44.94	45.88		
current at max. power [A]:	4.30	4.34	4.36		
max. power [W]: (tolerance)	190 ±3%	195 ±3%	200 ±3%		
Maximum System Voltage [V]	600 or 1000	600 or 1000	600 or 1000		
Maximum Over-Current Protection Rating [A]	28	28	28		
Module	SR-M275T-66	SR-M280T-66	SR-M285T-66		
open-circuit voltage [V]: (tolerance)	51.31 ±5%	51.77 ±5%	52.34 ±5%		
short-circuit current [A]: (tolerance)	6.85 ±3%	6.87 ±3%	6.88 ±3%		
voltage at max. power [V]:	43.38	44.02	44.75		
current at max. power [A]:	6.34	6.36	6.37		
max. power [W]: (tolerance)	275 ±3%	280 ±3%	285 ±3%		
Maximum System Voltage [V]	600 or 1000	600 or 1000	600 or 1000		
Maximum Over-Current Protection Rating [A]	28	28	28		



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Signature of the Certification Holder:

Name, seal and signature of Certificate Holder:	

