


Produkte Products		
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Constructional Data Form (CDF) for Photovoltaic (PV) Modules		Page 1 of 4

License Holder (full address)	Sany Silicon Energy (Zhuzhou) Co., Ltd. No.333, Qingxia Road, Tongtangwan Street, Shifeng District, 412005 Zhuzhou City Hunan, China
Production Factory 1 (full address)	Sany Silicon Energy (Zhuzhou) Co., Ltd. Sany Energy Equipment Industrial Park, No.320 Qingshui Road, Shifeng District, 412005 Zhuzhou City Hunan, China
Type of Product	Photovoltaic (PV) modules
Trademark	

Module family A:

Type Name or Model No(1500V)	SYMN156TBDxxx (xxx=625-645, in step of 5, 156 cells)	
Over-current protection rating[A]:	30	
Dimensions (l x w x h) [mm]	2465x1134x30	

List of Critical Components (add lines for multiple material sources)

Main parts Module Packing- Three Layers packing Module family A:				
Main parts:	Plywood/THREE LAYERS PAPER/PET			
Dimension of carton box:	2470mm×1130mm×1100mm			
Total weight:	1250.2kg			
Net weight:	33.2kg			
Number of PV modules:	36			
Placement of PV modules:	Placed in vertical			
Dimension of module:	2465mm×1134mm×30mm			
Suitable PV modules:	SYMN156TBDxxx (xxx=625-645, in step of 5, 156 cells)			
Module packing				
Wooden box with integrated pallet	Plywood	2516mm×1115mm×108mm	—	—

Shanghai, 13/07/2024



DEKRA Testing and Certification
(Shanghai) Ltd.


DSTD-0131

Zhuzhou
(City)

13/07/2024
(Date)


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List of Critical Components (add lines for multiple material sources)


Carton fence	THREE LAYERS PAPER	2470mm×1130mm×1100mm Thickness = 5±0.5mm 1st layer: 2A250g 2st layer: AA170g 3st layer: 2A250g	—	—
Carton cover	THREE LAYERS PAPER	2470mm×1130mm×1100mm Thickness = 5±0.5mm 1st layer: 3A230g 2st layer: 3A130g 3st layer: 3A230g	—	—
Fixing belts	PET	Width=16±0.5mm Thickness=0.8±0.5mm	—	—

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Module Components					
Object	Manufacturer / trademark	Type / model	Technical data / ratings	Standard (if applicable)	Certificates (if applicable)
Front cover 1	Hunan Kibing Solar Technology Co., Ltd.	Semi-tempered AR coated glass	Thickness [mm]: =2.0±0.2mm	—	—
Rear cover 1	Hunan Kibing Solar Technology Co., Ltd.	Semi-Tempered back glass	Thickness [mm]: =2.0±0.2mm	—	—
Encapsulation material 1	HANGZHOU FIRST APPLIED MATERIAL CO., LTD	EP304 (above cells)	Thickness = 0.5mm±10% gram weight: 380g/m ² ±10%	—	—
Encapsulation material 1	HANGZHOU FIRST APPLIED MATERIAL CO., LTD	F460PS(below cells)	Thickness = 0.5mm±10% gram weight: 400g/m ² ±10%	—	—
Solar cell	Sany Silicon Energy (Zhuzhou) Co., Ltd.	SYCN182T16 (combined with Encapsulation material 1,2)	L x W x T [mm]: 182.2 x 91.875 (±0.25) x 0.13 (±0.015) Topcon Mono-Si, 16BB	—	—
Cell connector	Changzhou Shengyue metal new material Co., Ltd	Sn60Pb40	Dimensions [mm]: Ø= 0.26±0.026mm	—	—
String connector	Changzhou Shengyue metal new material Co., Ltd	Sn60Pb40	Dimensions [mm]: 0.3±0.03mm x 6.0±0.6mm 0.3±0.03mm x 4.0±0.4mm	—	—
Frame parts	CHANGSHU DONGNENG SOLAR TECHNOLOGY CO., LTD	Anodized Aluminium Alloy 6005-T6 (Silver)	H(mm) x W(mm): 30x30mm (long frame) 30x15mm (short frame)	—	—
Adhesive 1 (frame)	Jiangsu Materials CO., LTD Tianchen New	HT-8258	Color: White	—	—
Fluxing agent	Shenzhen Tongfang Electronic New-Material CO., LTD	AATF9800-MBB	—	—	—
Insulation tape	SuZhou Rongzhi Electronic Technology Co., Ltd	D60F6-2	Thickness =100±40um	—	—
(Optional) Accessories				—	—

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Object	Manufacturer / trademark	Type / model	Technical data / ratings	Standard	Certificates
Junction Box Combination					
Junction box	Suzhou Xtong Photovoltaic Technologies Co., Ltd.	PV-XT1609Nxyz (x=4; y=3; z=1 or 2)	Rated. Voltage = 1500V Rated. Current = 25A Reverse current: 40A IP68	IEC 62790: 2020 EN IEC 62790: 2020	R 50524457
Cable	Suzhou Xtong Photovoltaic Technologies Co., Ltd.	62930 IEC 131 1 x 2,5mm ² / 1 x 4,0mm ² / 1 x 6,0mm ² HALOGEN FREE LOW SMOKE	Max. Voltage = 1500VDC	IEC 62930	R 50453577
Connector	Suzhou Xtong Photovoltaic Technologies Co., Ltd.	PV-XT101.2	Rated. Voltage = 1500V Rated. Current = 41A	IEC 62852:2014	R 50568733
Bypass diode	Suzhou Xtong Photovoltaic Technologies Co., Ltd.	XT4050M-B	Tj max = 200°C		
Adhesive	Jiangsu Tianchen New Materials CO., LTD.	HT-8258	Color: White		
Potting material	Jiangsu Tianchen New Materials CO., LTD.	HT-6360 A/B	Color: White		

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