

CERTIFICATE

Issued to:

Applicant:

Ningbo Shihe New Energy Technology Co., Ltd.
NO.528, Xinsheng RD., West Industrial Area, Xinqu
Town, Cixi City,
315322 Ningbo Zhejiang, China

Licensee:

Ningbo Shihe New Energy Technology Co., Ltd.
NO.528, Xinsheng RD., West Industrial Area, Xinqu
Town, Cixi City,
315322 Ningbo Zhejiang, China

Product : Connectors for DC-application in photovoltaic systems
Trade name(s) : SHIHE TEC
Type(s)/model(s) : DJ2011-4X

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard(s) IEC 62852:2014, IEC 62852:2014/A1:2020, EN 62852:2015 and EN 62852:2015/A1:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6062204

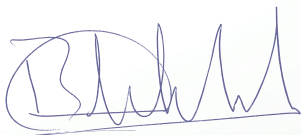
DEKRA hereby grants the right to use the DEKRA Seal certification mark.

The DEKRA Seal certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Seal certification agreement.


This certificate is issued on 16 June 2022 and expires at the latest on 13 June 2027.

Certificate number: 31-124156

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Connectors for DC-application in photovoltaic systems
Trade name(s)	: SHIHE TEC
Type(s)/model(s)	: DJ2011-4X
Rated Voltage	: 1500 Vdc
Rated Current	: 41 A
Ambient Temperature	: -40 °C to +85 °C
Upper Limit Temperature	: +100 °C
Cross Section Range	: 1 x 4,0 mm ²
Protection Degree	: IP65/IP68(1m, 1h)
Application Class	: Class A

TESTS**Test requirements**

IEC 62852:2014
IEC 62852:2014/A1:2020
EN 62852:2015
EN 62852:2015/A1:2020

Test result

The test results are laid down in DEKRA test file 613037400.

Additional information

The list of components is laid down in test report 6130374B.50.

Conclusion

The examination proved that all requirements were met.

Factory location

Ningbo Shihe New Energy Technology Co., Ltd.
NO.528, Xinsheng RD., West Industrial Area, Xinpu Town, Cixi City,
315322 Ningbo Zhejiang, China

Unique Identifier



Test specification: IEC 62852:2014, IEC 62852/A1:2020; EN 62852:2015, EN 62852/A1:2020

Our Reference 6130374B.50

Appendix No. 1.0

License Holder	Ningbo Shihe New Energy Technology Co., Ltd.
(full address)	NO.528, Xinsheng RD., West Industrial Area, Xinpu Town, Cixi City, Zhejiang 315322, P.R. China
Production Factory 1	Ningbo Shihe New Energy Technology Co., Ltd.
(full address)	NO.528, Xinsheng RD., West Industrial Area, Xinpu Town, Cixi City, Zhejiang 315322, P.R. China
Type of Product	Connectors for DC-application in photovoltaic systems
Trademark	SHIHE TEC
Type Name or Model No.....	DJ2011-4X
Rated Voltage.....	1500 Vdc
Rated impulse voltage	16 kV
Rated insulation voltage.....	8 kV
Rated Current.....	41 A
Standard	IEC 62852:2014, IEC 62852/A1:2020; EN 62852:2015, EN 62852/A1:2020
Application class.....	Class A
Pollution class	Class II
Existence of an enclosure.....	Enclosed connector
Design of the connector	Free connector
Pollution degree.....	1/2 /3/4
Over voltage category	I/II /III /IV

Test specification: IEC 62852:2014, IEC 62852/A1:2020; EN 62852:2015, EN 62852/A1:2020

Our Reference 6130374B.50

Appendix No. 1.0

Operating cycles..... :	50 / 100 / 500 / 1000 / 2000 / 5000
Bendings	100 / 500 / 1000 / 2000 / 5000 / 20000
Lower ambient temperature	-40 °C
Upper ambient temperature	+85 °C
Upper limit Temperature	+100 °C
Type of conductor	Flexible
Termination and connection	Crimped connection
Values for cable clamp	5,8 mm - 6,0 mm
Number of poles	1
Wire cross section area or cross section range	1 x 4,0 mm ²
Degree of protection..... :	IP65/IP68(1m, 1h)
Rewire able	Yes / No
Additional characteristics	Connector with cable clamp
(Optional) Accessories	N/A

Test specification: IEC 62852:2014, IEC 62852/A1:2020; EN 62852:2015, EN 62852/A1:2020

Our Reference 6130374B.50

Appendix No. 1.0

List of Critical Components

Ref.	Object	Manufacturer / trademark	Type / model	Technical data / ratings	Certificates (if applicable)
1.0	Material of Connector Body	ASAHI KASEI CHEMICALS CORP XYRON POLYMER	m-PPE, PV40Z(f1)	UL94V-0, 5VA RTI = 105°C	UL E82268
2.0	Material of Screw Cap	ASAHI KASEI CHEMICALS CORP	PA66, FR370(j)(f1)	UL94V-0 RTI = 105 °C	UL E48285
3.0	Carry Current Part	Ningbo Shihe New Energy Technology Co., Ltd.	Copper, T2	Tin-Plated	//
4.0	O Sealing Ring	Ningbo Shihe New Energy Technology Co., Ltd.	Silicone Rubber	Φ6,7 ± 0,14 mm; Φ1,6 ± 0,05 mm	//
5.0	Sealing Gasket	Ningbo Shihe New Energy Technology Co., Ltd.	Silicone Rubber	Φ8 ± 0,05 mm x 10,1 ± 0,2 mm	//
6.0	Cord Anchorage	ASAHI KASEI CHEMICALS CORP	PA66, FR370(j)(f1)	UL94V-0 RTI = 105 °C	UL E48285
7.0	Metal Ring On Carry Current Part For Fixing	Ningbo Shihe New Energy Technology Co., Ltd.	Stainless Steel, SUS301	Φ8,1 mm x 7,5 mm	//
8.0	Cable	Ningbo Shihe New Energy Technology Co., Ltd.	62930 IEC 131 1x4 mm ²	1 x 4,0 mm ²	TUV SUD: B 090781 0013 Rev. 00
9.0	Inner Spring Coil	Ningbo Shihe New Energy Technology Co., Ltd.	Beryllium copper	Silver-Plated	//

Remark: N/A