



Product Service

CERTIFICATE

No. B 116111 0002 Rev. 00

Holder of Certificate: **Zhejiang Sowell Electric Co., Ltd.**

No.688, Siming Mid Rd
Yinzhou District
315000 Ningbo
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

Electric Cables

Cables for use in photovoltaic systems

Model(s):

PV1-F

**1×1.5mm², 1×2.5mm², 1×4mm², 1×6mm²
1×10mm², 1×16mm², 1×25mm², 1×35mm²**

Parameters:

Rated Voltage: AC U0/U: 0.6/1 kV
Maximum DC voltage: 1.8 kV
(Conductor-conductor, non earthed system, circuit not under load).
U0 is the r.m.s. value between any insulated conductor and earth, i.e. metal covering of the cable or the surrounding medium
U is the r.m.s. value between any two phase-conductors of a multicore cable or of a system of single-core cables.

Application Class: A
Protection Class: II
Ambient Temperature: -40°C ~ +90°C
Max. Temperature at conductor: 120°C

Tested according to: **PPP 59074A:2019**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704072208002-00
Valid until: 2027-03-07

Date, 2022-03-08

(Yaquun Alex Liu)



Product Service

CERTIFICATE

No. B 116111 0001 Rev. 00

Holder of Certificate: **Zhejiang Sowell Electric Co., Ltd.**

No.688, Siming Mid Rd
Yinzhou District
315000 Ningbo
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

Electric Cables

**Electric cables for photovoltaic systems
with a voltage rating of 1,5 kV DC**

Model(s):

**H1Z2Z2-K & 62930IEC131
1×1.5mm², 1×2.5mm², 1×4mm², 1×6mm²
1×10mm², 1×16mm², 1×25mm², 1×35mm²**

Parameters:

Rated Voltage: DC 1.5 kV (between conductors and
between conductor and earth)
AC U₀/U: 1.0/1.0 kV
Application Class: A
Protection Class: II
Ambient Temperature: -40°C ~+90°C
Max. Temperature
at conductor: 120°C

Tested according to:

EN 50618:2014
IEC 62930(ed.1)

The product was tested on a voluntary basis and complies with the essential requirements.
The certification mark shown above can be affixed on the product. It is not permitted to alter the
certification mark in any way. In addition, the certification holder must not transfer the certificate
to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to
be complied. For details see: www.tuvsud.com/ps-cert

Test report no.:

704072208001-00

Valid until:

2027-03-07

Date, 2022-03-08

(Yaqun Alex Liu)

Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. Certificate No.
J 50490609

Blatt Sheet
0001

Ihr Zeichen Client Reference
Z.H.Q.

Unser Zeichen Our Reference
01-SYF-60421298 002

Ausstellungsdatum Date of Issue
07.01.2021 (day/mo/yr)

Genehmigungsinhaber License Holder

ZHEJIANG SOWELL ELECTRIC CO., LTD
#020520, NO.688, SIMING MID RD,
YINZHOU DISTRICT, NINGBO
Zhejiang
P.R. China

Fertigungsstätte Manufacturing Plant

ZHEJIANG SOWELL ELECTRIC CO., LTD
#020520, NO.688, SIMING MID RD,
YINZHOU DISTRICT, NINGBO
Zhejiang
P.R. China

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
2 PFG 2642/11.17



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(PV Aluminium cable for installation in ground)

Type Designation : 2283877

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Code Designation : PV1500DC-AL

Additional Marking : HALOGEN FREE LOW SMOKE

Scope of Sizes : 1X4...10mm²

Rated Voltage : DC 1,5kV

Max. Temperature
at Conductor : 90°C

Remark 1: Only suitable terminals specified for aluminium
conductors shall be used.

Remark 2: The conductors are flexible aluminium conductors
not covered by IEC 60228.

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com

Fax: +49 221 806-3935 http://www.tuv.com/safety



Bo Liu



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Annex I

No. 3N220926.ZSEQW12

Test Report no. 704072208001-00, 704072208002-00, 60421298, 704072208003-00

Model(s):

H1Z2Z2-K	1×1.5 / 2.5 / 4 / 6 / 10 / 16 / 25 / 35mm ²
62930IEC131	1×2.5 / 4 / 6 / 10 / 16 / 25 / 35mm ²
PV1-F	1×1.5 / 2.5 / 4 / 6 / 10 / 16 / 25 / 35mm ²
PV1500DC-AL	1×4 / 6 / 10mm ²
PV2000DC-X (X=01, 02)	1×2.5 / 4 / 6 / 10 / 16 / 25 / 35mm ²

Standard:

EN 50618:2014	for H1Z2Z2-K
IEC62930 (ed.1)	for 62930IEC131
PPP 59074A:2019	for PV1-F
2 PfG 2642	for PV1500DC-AL
PPP 58209	for PV2000DC-X (X=01, 02)

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50563047

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
S.W.

Unser Zeichen *Our Reference*
01-LWP-60412654 004

Ausstellungsdatum *Date of Issue*
21.11.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*

ZHEJIANG SOWELL ELECTRIC CO., LTD
#020520, NO.688, SIMING MID RD,
YINZHOU DISTRICT, NINGBO
Zhejiang
P.R. China

Fertigungsstätte *Manufacturing Plant*

ZHEJIANG SOWELL ELECTRIC CO., LTD
#020520, NO.688, SIMING MID RD,
YINZHOU DISTRICT, NINGBO
Zhejiang
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
IEC 62852:2014+A1
EN 62852:2015

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit
License Fee - Unit

PV Komponente (elektrisch) für BOS (PV Components for BOS - electrical)

Type Designation : PV-LTN4 ; PV-LTM5 ; PV-LTN01
(SOWELLSOLAR)
Rated Voltage : 1500VDC
Rated Current : 50A
Ambient Temperature : -40°C to +85°C
Upper Limit Temperature: 100°C
Cross Section Range : 1 x 6,0mm²
Protection Degree : IP65/IP68 (1m, 1h)
Application Class : Class A

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Remark: The labelling requirements acc. to EU Directive
2001/95 have to be observed for distribution within
the EEA.

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

Zertifizierungsstelle



Dipl.-Ing. (FH) Bernd Scheirer



C E R T I F I C A T E

ATTESTATION CERTIFICATE OF LOW VOLTAGE DIRECTIVE

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/35/EU Low Voltage Directive has been taken as references for these processes

Company Name : Zhejiang Sowell Electric Co., Ltd.

Company Address : No.688, Siming Mid Rd, Yinzhou District, Ningbo, Zhejiang, China

Related Directives and Annex : Low Voltage Directive 2014/35/EU

Related Standards : EN 62852:2015+A1:2020

Product Name : Connectors for Photovoltaic System

Report No and Date : TCF-Sowell0713

Product Brand/Model/Type : PV004, PV005, PV006, PV-ST01, nT1 (n=2...6), nT1-L (n=2...4), PV-F10MF, PV-D10MF, PV007, PV008, PV-ST101, PV-F15

Certificate Number : M.2021.206.C66230

Initial Assessment Date : 13.07.2021

Registration Date : 14.07.2021

Reissue Date/No : -

Expiry Date : 13.07.2026


UDEM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be noticed in case of any changes on the product(s)

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Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76

E-mail: info@udemltd.com.tr www.udem.com.tr





C E R T I F I C A T E

ATTESTATION CERTIFICATE OF LOW VOLTAGE DIRECTIVE

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2014/35/EU Low Voltage Directive has been taken as references for these processes

Company Name : Zhejiang Sowell Electric Co., Ltd.

Company Address : No.688, Siming Mid Road, Yinzhou District, Ningbo, Zhejiang, China

Related Directives and Annex : Low Voltage Directive 2014/35/EU

Related Standards : EN 62852:2015+A1:2020

Product Name : Connectors for Photovoltaic System

Report No and Date : ZBB0722091601L

Product Brand/Model/Type : SSPV-X (X=1...5), PV-LTM5, EN001,PV-LTN4, LT, LT-6J,PV005-P, PV-LTN01,T4

Certificate Number : M.2022.206.C77513

Initial Assessment Date : 16.09.2022

Registration Date : 19.09.2022

Reissue Date/No : -

Expiry Date : 18.09.2027


UDEM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be noticed in case of any changes on the product(s)

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