

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50436886

Blatt *Sheet*  
0001

Ihr Zeichen *Client Reference*  
M.L.

Unser Zeichen *Our Reference*  
01-Wuchale-50253550 001

Ausstellungsdatum  
19.08.2019

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

**Genehmigungsinhaber *License Holder***

Suntree Electric Group Co., Ltd.  
Xinguang Industrial Zone,  
Liushi Town, Yueqing City,  
Zhejiang Province 325604  
P. R. China

**Fertigungsstätte *Manufacturing Plant***

Suntree Electric Group Co., Ltd.  
Xinguang Industrial Zone,  
Liushi Town, Yueqing City,  
Zhejiang Province 325604  
P. R. China

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***  
EN 61643-31:2019

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

**Lizenzentgelte - Einheit  
*License Fee - Unit***

Surge Protector Surge Protective Device for PV system

Type Designation : SUP2H-PV, PMUP9-40 (SUNTREE)  
Maximum continuous operating voltage (Ucpv) : DC 500 V  
Voltage protection level (Up) : 2.8 kV(+ to PE, - to PE)  
Short-circuit current rating (Iscpv) : 10 A  
Nominal discharge current (In) : 20 kA  
Maximum discharge current (Imax) : 40 kA  
Type of SPD : Type 2  
Location : Indoor  
Temperatures : -40°C to +70°C

6

Remark: test according to IEC 61643-31:2018 was considered.

6

ANLAGE (Appendix): 1.0

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.



Zertifizierungsstelle

Zhao Xinhua

**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



Ref. Certif. No.

HU-002692

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

PV SPD

Name and address of the applicant

Suntree Electric Group Co., Ltd.  
Xinguang Industrial Zone, Liushi Town, Yueqing City,  
Zhejiang Province 325604, P.R. China

Name and address of the manufacturer

Suntree Electric Group Co., Ltd.  
Xinguang Industrial Zone, Liushi Town, Yueqing City,  
Zhejiang Province 325604, P.R. China

Name and address of the factory

Suntree Electric Group Co., Ltd.  
Xinguang Industrial Zone, Liushi Town, Yueqing City,  
Zhejiang Province 325604, P.R. China

Note: When more than one factory, please report on page 2

Ratings and principal characteristics

Nominal discharge current ( $I_n$ ): 20kA,  
Max. discharge current ( $I_{max}$ ): 40kA,  
Max. continuous operation voltage ( $U_{cPV}$ ): DC 500V,  
Voltage protect level ( $U_p$ ): 2.8kV (+ to PE, - to PE),  
IP code: IP20,  
Short-circuit current rating ( $I_{scCR}$ ): 10A,  
Test Class: Class II

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

---

Model / Type Ref.

SUP2H-PV, PMUP9-40

Additional information (if necessary may also be reported on page 2)

---

A sample of the product was tested and found to be in conformity with

IEC 61643-31:2018

As shown in the Test Report Ref. No. which forms part of this Certificate

19041711D

This CB Test Certificate is issued by the National Certification Body



TÜVRheinland®

TÜV Rheinland InterCert Kft., Division MEEI  
H-1132 Budapest, Váci út 48/A-B  
www.tuv.com

Date: 2019-08-15

Signature:



Gabor Kassai

# CERTIFICATE



## of Conformity Low Voltage Directive 2014/35/EU

Registration No.: AN 50444063 0001

Report No.: 50253550 001

**Holder:** **Suntree Electric Group Co., Ltd.**  
**Xinguang Industrial Zone,**  
**Liushi Town, Yueqing City,**  
**Zhejiang Province 325604**  
**P. R. China**

**Product:** **Surge Protector**  
**Surge Protective Device for PV system**

**Identification:**

Type Designation	: SUP2H-PV, PMUP9-40
Series number	: Engineering samples
Ucpv	: DC 500 V
In	: 20 kA
Up	: 2.8 kV(+ to PE, - to PE)
Test according to	: EN 61643-31:2019

Remark: This certificate issued together with R50436886 0001

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body



Date 19.08.2019

Zhao Xinhua

**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**

**CE** The CE marking may be used if all relevant and effective EC Directives are complied with.



**TÜV Rheinland (China) Ltd.**  
Member of TÜV Rheinland Group



Suntree Electric Group Co., Ltd.  
Maggie Liu

Date : 19.08.2019  
Our ref. : Wuchale 01  
Your ref.: M.L.

Xinguang Industrial Zone,  
Liushi Town, Yueqing City,  
Zhejiang Province 325604  
P. R. China

**Ref : AN Certificate of Conf. Low Voltage D.**

Type of Equipment : Surge Protective Device for PV system  
Model Designation : See Certificate  
Certificate No. : AN 50444063 0001  
Report No. : 50253550 001

Dear Maggie Liu,

A specimen of above mentioned product has been tested and found to be technically in compliance with § 20 and § 21 of the ProdSG (= Product Safety Act).

The certificate is issued with the reservation that the licence holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer including their respective addresses on the product prior to marketing the product in the European Economic Area. Enclosed please find the certificate of approval No. AN 50444063 0001.

If cancellation of the certificate is submitted by November 15 in a given year, no fee will be charged for the following year.

Please contact our office for approval of your new products.

With kind regards,

Certification Body

Zhao Xinhua

CC: Suntree Electric Group Co., Ltd.

Enclosure

证书的详细资料请登录[www.tuvdotcom.com](http://www.tuvdotcom.com) 查阅, 或拨打我司客服热线 800 999 3668/400 883 1300 咨询

**TÜV Rheinland (China) Ltd.**  
Unit 707, AVIC Bldg.,  
No.10B, Central Road,  
East 3rd Ring Road,  
Chaoyang District, Beijing,  
100022, P.R.China  
[www.chn.tuv.com](http://www.chn.tuv.com)

莱茵检测认证服务(中国)有限公司  
北京市朝阳区东三环中路  
乙10号艾维克大厦707室  
邮编 100022  
[www.chn.tuv.com](http://www.chn.tuv.com)

Tel: 86 10 6566 6660  
Fax: 86 10 6566 6667  
Hotline: 400 883 1300  
800 999 3668  
GC Service mailbox: [service-gc@tuv.com](mailto:service-gc@tuv.com)

电话: 86 10 6566 6660  
传真: 86 10 6566 6667  
热线: 400 883 1300  
800 999 3668  
大中华区服务邮箱: [service-gc@tuv.com](mailto:service-gc@tuv.com)