

Déclaration de conformité UE

EU Declaration of conformity

EU Konformitätserklärung

Dichiarazione di conformità UE

SC 001 PRO

F1

The designated product adheres to the following European directives in regards to their protective goals :

2014/35/EU Low Voltage Directive (see Annex I, 1.5.1 of the Machinery Directive 2006/42/EC)

2014/30/EU Directive relating to electromagnetic compatibility (EMC)

2011/65/EU Directive on the Restriction of Hazardous Substances (RoHS)

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- FR** SolarCleanso déclare que le robot nettoyeur de panneaux solaires satisfait à l'ensemble des dispositions pertinentes directive
- EN** SolarCleanso declares that the solar panel cleaning robot complies with all the relevant provisions of Directive
- DE** SolarCleanso erklärt, dass der Solarpanel-Reinigungsroboter alle relevanten Bestimmungen der Richtlinien erfüllt.
- IT** SolarCleanso dichiara che il robot per la pulizia dei pannelli solari è conforme a tutte le disposizioni pertinenti delle linee guida
- ES** SolarCleanso declara que el robot de limpieza de paneles solares cumple con todas las disposiciones pertinentes de la Directiva
- NL** SolarCleanso verklaart dat de robot zonnepaneelreiniger voldoet aan alle relevante bepalingen van de richtlijn
- PT** SolarCleanso declara que o robô de limpeza de painéis solares cumpre todas as disposições relevantes da Directiva

Christophe Timmermans

Director

Done on 01/04/2021 in Bascharage

SolarCleanso

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Certification

of the Main Test Results

Fraunhofer CSP has tested and evaluated the influence of the SolarCleanO F1 cleaning robot during operation in terms of mechanical and electrical stability of PV modules.

<i>Module type:</i>	<i>SunPower SPR-E20</i>
<i>Sample type:</i>	<i>2 modules</i>
<i>Year of test:</i>	<i>2022</i>
<i>Test method:</i>	<i>52 cleaning passes 45 minutes steady brushing 1 dust cleaning</i>
<i>Tested characteristics:</i>	<i>Visual inspection STC power measurement Electroluminescence image Spectral reflectance</i>

Result:

*The operation of the SolarCleanO F1 cleaning robot leads to no significant changes in module performance, no significant changes in electrical-mechanical integrity and minor changes in spectral reflectance with the applied test methods.
Further details of the tests are documented in report V130/2022.*

*Prof Dr. Ralph Gottschalg
Director Fraunhofer CSP*

*Ulli Zeller
Scrutinizer*

Certification

of the Main Test Results

Fraunhofer CSP has tested and evaluated the influence of the SolarCleanO F1 cleaning robot during operation in terms of mechanical and electrical stability of PV modules.

Module type: Crystalline 126 cell glass backsheet framed module

Sample type: 2 modules

Year of test: 2022

*Test method: 52 cleaning passes
45 minutes steady brushing
1 dust cleaning*

*Tested characteristics: Visual inspection
STC power measurement
Electroluminescence image
Spectral reflectance*

Result:

The operation of the SolarCleanO F1 cleaning robot leads to no significant changes in module performance, no significant changes in electrical-mechanical integrity and minor changes in spectral reflectance with the applied test methods. Further details of the tests are documented in report V128/2022.

*Prof Dr. Ralph Gottschalg
Director Fraunhofer CSP*

*Ulli Zeller
Scrutinizer*

Certification

of the Main Test Results

Fraunhofer CSP has tested and evaluated the influence of the SolarCleanO F1 cleaning robot during operation in terms of mechanical and electrical stability of PV modules.

<i>Module type:</i>	<i>FirstSolar FS-4115-3</i>
<i>Sample type:</i>	<i>2 modules</i>
<i>Year of test:</i>	<i>2022</i>
<i>Test method:</i>	<i>52 cleaning passes</i>
<i>Tested characteristics:</i>	<i>Visual inspection</i>
	<i>STC power measurement</i>
	<i>Electroluminescence image</i>
	<i>Spectral reflectance</i>

Result:

The operation of the SolarCleanO F1 cleaning robot leads to no significant changes in module performance, no significant changes in electrical-mechanical integrity and no significant changes in spectral reflectance with the applied test methods.

Further details of the tests are documented in report V129/2022.

Prof Dr. Ralph Gottschalg
Director Fraunhofer CSP

Ulli Zeller
Scrutinizer

Certification

of the Main Test Results

Fraunhofer CSP has tested and evaluated the influence of the SolarCleanO F1 cleaning robot during operation in terms of mechanical and electrical stability of PV modules.

Module type: 1.2 x 0.8 m² frameless thin film module
Sample type: 2 modules
Year of test: 2022
Test method: 52 cleaning passes
Tested characteristics: Visual inspection
STC power measurement
Electroluminescence image
Spectral reflectance

Result:

The operation of the SolarCleanO F1 cleaning robot leads to no significant changes in module performance, no significant changes in electrical-mechanical integrity and no significant changes in spectral reflectance with the applied test methods.

Further details of the tests are documented in report V131/2022.

Prof Dr. Ralph Gottschalg
Director Fraunhofer CSP

Ulli Zeller
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Managing Director

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SolarCleanso

Bascharage, March 19, 2018

Declaration of Conformity

SolarCleanso SA hereby declares that the "SolarCleanso" cleaning robot for cleaning photovoltaic installations is standard conform to the European machinery directive (2006/42/EC).



Christophe Timmermans
Directeur





CERTIFICATE

The ESCEM asbl Certification Body hereby certifies that the company

SolarCleans Sàrl

**43-45 ZA Op Zaemer,
L - 4959 Bascharage**

has established and applies a quality management system
for the scope

The conception and assembly of robots, designed for cleaning Solar panels

An audit was performed, report No 374
Proof has been furnished that the requirements according to

ISO 9001:2015

are fulfilled.

The certificate is valid from 13.07.2021 until 12.07.2024

Certificate Registration No
900 374

Esch-sur-Alzette, the 13.07.2021

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