

Fraunhofer

TESTED® DEVICE

Shanghai Suntone Electronic Co., Ltd CMS-POD 16010920

Report No. SH 2005-1154

Statement of Qualification

Single product Particle Emission





Statement of Qualification • Single product

Customer Shanghai Suntone Electronic Co., Ltd

Building B2, NO.628 SuiDe Road

Putuo District 200331 Shanghai

China

Component tested

Category: Energy Supply

Subcategory: Cable Systems

Product name: CMS-POD 16010920

(manufacturing date: 1/9/2020; color: white; serial number: 8216010920;

batch number: 16010920; charge number: P205.4.2.R40ACE)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

SO 14644-1, -14

The norms stated generally refer to the version valid at the time of the tests.

Optical particle counter:

LasAir II 110 and LasAir III 110 with measuring ranges \geq 0.1 μ m, \geq 0.2 μ m, \geq 0.3 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

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Cleanroom	Air (Tear	iliness (Tass	(according to	ISO 14644-1	1).	IS() 1

Airflow velocity: 0.4	15	'n	n	/s
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• Airflow pattern: vertical laminar flow

Temperature:22 °C ± 0.5 °C

• Bending radius:r = 75 mm

• Parameter Set 1:.... $v_1 = 0.5 \,\text{m/s}$; $a_1 = 1.0 \,\text{m/s}^2$

• Parameter Set 3: $v_2 = 2.0 \,\text{m/s}$; $a_2 = 4.0 \,\text{m/s}^2$

Test result/Classification

When operated under the specified test conditions, the CMS-POD 16010920 is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
$v_1 = 0.5 \text{m/s}; a_1 = 1.0 \text{m/s}^2$	1
$v_2 = 1.0 \text{m/s}; a_2 = 2.0 \text{m/s}^2$	1
$v_3 = 2.0 \text{m/s}; a_3 = 4.0 \text{m/s}^2$	1
Overall result	1

Please note: Transport damages, incorrect installation, aging behavior, etc. can influence the test result.



The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

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on behalf of River

and is valid for a period of 5 years from the date the first document was issued. The document can be verified under

product in its original state

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