



Fraunhofer

TESTED[®] DEVICE

PULS GmbH
CW1000 revision 0B0D0E
Report No. PU 2607-1791

DUPLICATE

Statement of
Qualification

Single product
Particle Emission
in Cleanroom
(atmospheric)

Customer	PULS GmbH Elektrastrasse 6 81925 Munich Germany
Tested product	
Category:	Working Place and Operator
Subcategory:	Work Equipment
Product name:	CW1000 revision 0B0D0E consisting of: - CW1000 Wallbox (manufacturing date: 3/2026; article number: CW1000.WALL; serial number: 1401158444) - CW1000 Sending Pad (manufacturing date: 5/2026; article number: CW1000.SEPa; serial number: 1100896014) - CW1000 Mobile Charger (manufacturing date: 5/2026; article number: CW1000.MOCHA; serial number: 1100303931)

Random sampling of particle emissions (airborne) at representative sites in cleanroom under atmospheric conditions

Standards/guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.
Test equipment:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1\text{ }\mu\text{m}$, $\geq 0.2\text{ }\mu\text{m}$, $\geq 0.3\text{ }\mu\text{m}$, $\geq 0.5\text{ }\mu\text{m}$, $\geq 1.0\text{ }\mu\text{m}$ and $\geq 5.0\text{ }\mu\text{m}$
Test environment parameters:	- Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1 - Airflow velocity:.....0.45 m/s - Airflow pattern:..... vertical laminar flow - Room temperature:22 °C $\pm$ 0.5 °C - Relative humidity: 45 % $\pm$ 5 %
Test procedure parameters:	- Installation position: – CW1000 Wallbox:vertical – CW1000 Sending Pad/CW1000 Mobile Charger: horizontal - Load: – U_{min}:20 V – U_{max}:31 V – U_{charge}:29 V – U_{restart}:24 V – I_{min}:1 A – I_{charge}:42 A

Test result / Classification	The charger system CW1000 revision 0B0D0E consisting of CW1000 Wallbox, CW1000 Sending Pad and CW1000 Mobile Charger is suitable for use under the specified test parameters (room temperature: 22 °C $\pm$ 0.5 °C; relative humidity: 45 % $\pm$ 5 %) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:
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Test parameter(s)	Air Cleanlines Class
CW1000 Wallbox ($U_{\text{charge}} = 29\text{ V}$; $I_{\text{charge}} = 42\text{ A}$)	4
CW1000 Sending Pad and CW1000 Mobile Charger	2
Overall result	4

Please note: Transport damages, incorrect installation, aging behavior, corrosion 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.

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Business unit Testing and Certification	-- Report No. current document	-- Place, current date
Nobelstrasse 12 70569 Stuttgart Germany	on behalf of Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	