

Manufacturer's declaration



Sustainability SOLARWATT Panel vision M 5.0

All SOLARWATT solar modules and the materials used for them have been carefully selected. We ensure that the solar modules meet all necessary requirements, such as IEC 61215 and 61730. In addition, we test our solar modules even more extensively and undertake a wide range of sustainability efforts to always guarantee Solarwatt's premium quality.

The company

Solarwatt GmbH
Maria-Reiche-Straße 2a
01109 Dresden

hereby declares that,

1. all SOLARWATT Panel vision M 5.0 will be low carbon PV modules. The Panel vision M 5.0 series will reach a CO₂ footprint of less than 490 kg eq CO₂/kWc and less than 220 kg eq CO₂/module which can be verified by a Certisolis PPE certificate. Within this certificate, the supply chain for the production steps for the silicon, the ingots, the wafers, the solar cells and the embedding material are disclosed.

2. the supply chain for the SOLARWATT Panel vision M 5.0 series is already transparent at the present time and is located far away from regions associated with forced labor. In addition, the module contract manufacturer for the SOLARWATT Panel vision M 5.0 series declares in a valid compliance clause that:

- the above-mentioned modules are free of conflict materials
- the contract manufacturer complies with the core labor standards of the International Labor Organization
- the principles of the UN Global Compact regarding human rights, working conditions, the environment and anti-corruption are fulfilled
- there is no forced labor, illegal child labor, racial or religious discrimination involved in either the business model or the products

3. the company producing on Solarwatt's behalf has received the Environmental Product Declaration (EPD) for the SOLARWATT Panel vision AM 5.0 series. This document can be submitted subsequently in the second quarter of 2024.

4. the SOLARWATT Panel vision M 5.0* series has passed the SVHC assessment test. SVHC stands for "Substances of Very High Concern". The test result of 07.10.2023 for all substances of very high concern of the test scope is "The SVHC concentrations is less than 0.1%" and thus passed. The test scope includes testing for 235 SVHC in accordance with Article 59(10) of Regulation (EC) No 1907/2006 (REACH Regulation). The test was carried out by TÜV SÜD.

5. the SOLARWATT Panel vision M 5.0* series has passed the PFAS SVHC Assessment Report. PFAS stands for Per- and Polyfluorinated Substances. The test result of 28.09.2023 for all substances of concern of the test scope is "N.D. = Not Detected" and thus passed. The scope of the test includes testing for over 1,500 PFAS SVHC. From this it can be concluded, inter alia, that the tested panels cannot cause significant pollution to the immediate environment and can be characterized as "PFAS-free". The test was carried out by TÜV SÜD.

6. the SOLARWATT Panel vision M 5.0* series has passed the RoHS test report. The test result dated 07.10.2023 for all substances of concern in the test scope is "PASS". The RoHS Directive restricts the use of ten substances: Lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), bisphthalates (DEHP), butyl benzyl phthalates (BBP), dibutyl phthalates (DBP) and diisobutyl phthalates (DIBP). The test was carried out by TÜV SÜD.

7. the SOLARWATT Panel vision M 5.0* series has passed the EC 1907/2006 technical report. The test result of 07.10.2023 for all substances of concern of the test scope is "PASS". The test scope for Directive EC 1907/2006 includes the following substances: polychlorinated terphenyls (PCTs), organotin compounds, nonylphenol (NP), PAHs, phthalates, DMFu and C9-C14-PFCAs and their salts as well as C9-C14-PFCA-related substances. The test was carried out by TÜV SÜD.

8. Solarwatt regularly verifies compliance with all established standards through on-site inspections to ensure that all Solarwatt specifications are strictly adhered to.

9. Solarwatt has been awarded the silver level of Cradle to Cradle Certification® for the extremely durable glass-glass modules of the Solarwatt Panel vision H series and GM series 3.0. Only three photovoltaic manufacturers in the world have this certification. In Germany, Solarwatt is the first and so far, only PV module manufacturer. Solarwatt is also aiming to achieve this for its externally manufactured products in the future.



Gregor Kuschmann
Director Product Management Panels

Dresden, May 1st, 2024

*Tested under the contract manufacturer's product names