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| **Annex 1 to the Contract pursuant to DE-UZ 116**  **Blue Angel Eco-Label for „Solar-Powered Products“** |  | **Please use this  form !** |

Manufacturer (Applicant):

Distributor (Label User):

Brand / Trade name:

Type designation:

|  |  |  |  |
| --- | --- | --- | --- |
| **Para-graph** | **Declarations/Compliance Verifications for Solar-Powered Products** | **Yes** | **No** |
| **3.1** | **Solar-Powered Products without Battery** |  |  |
|  | Applicant declares compliance with the functional safety requirements pursuant to para. 3.1. of the Basic Criteria. |  |  |
|  | Attached hereto are data verifying compliance with the requirements. |  |  |
|  |  | **Annex 7a)** |  |
| **3.2** | **Solar-Powered Indoor Products with Accumulator** |  |  |
| **3.2.1** | **Functional Safety Requirements** |  |  |
|  | Applicant declares compliance with the functional safety requirements pursuant to para. 3.2.1. of the Basic Criteria. |  |  |
|  | Attached hereto is the calculation verifying compliance with the requirements. |  |  |
|  |  | **Annex 7b)** |  |
| **3.2.2** | **Consumer Information** |  |  |
|  | Applicant declares compliance with the consumer information requirements pursuant to para. 3.2.2. of the Basic Criteria. |  |  |
|  | The product literature includes the following data on the proper handling during the initial charging of the accumulator or general information on the correct handling for optimum maintenance of accumulator capacity. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.3** | **Other Solar-Powered Products** |  |  |
| **3.3.1** | **Charge time and Functional Safety Requirements** |  |  |
|  | Applicant declares compliance with the charge time and functional safety requirements pursuant to para. 3.3.1. of the Basic Criteria. |  |  |
|  | Attached hereto are measurement protocols on charge time and functional safety. |  |  |
|  |  | **Annex 7c)** |  |
|  | Applicant declares compliance with the functionality-at-low-light requirements pursuant to para. 3.3.1. of the Basic Criteria. |  |  |
|  | Attached hereto are measurement protocols on the functionality at low light. |  |  |
|  |  | **Annex 7d)** |  |
| **3.3.1.a)** | **Solar-Powered Products for Stationary Outdoor Use (e.g. electric fence energisers, garage door operators, etc.)** |  |  |
|  | Manufacturer declares compliance with the functional safety requirements pursuant to para. 3.3.1.a) of the Basic Criteria. |  |  |
|  | Attached hereto is the simulation results protocol. |  |  |
|  |  | **Annex 7e)** |  |
| **3.3.1.b)** | **Solar Chargers as well as Self-Sustaining Solar-Powered Products with Integrated or Proper Accumulators for Mobile Fields of Use** |  |  |
|  | Applicant declares compliance with the requirements for the availability of accumulators pursuant to para. 3.3.1. b) of the Basic Criteria. |  |  |
| **3.3.1.c)** | **Solar Chargers without Proper Accumulators** |  |  |
|  | Applicant declares compliance with the requirements for recommendation of an accumulator with a specific nominal capacity pursuant to para. 3.3.1. c) of the Basic Criteria. |  |  |
|  | The product literature includes a clear recommendation for the use of specific accumulators. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.3.2** | **Consumer Information** |  |  |
|  | The product literature includes the following consumer information:  - The proper handling during the initial charging of the accumulator or general information on the correct handling for optimum maintenance of accumulator capacity.  - The charge time for full charge (100%) in hours with reference to the nominal capacity of the integrated or proper or recommended accumulator.  - The resulting average charge time for 1 Ah related to the respective accumulator equipment.  - Note stating that the charge time measured has been determined at an irradiance corresponding to 80 percent of the insolation of the summer-time noon sun and that under close-to-reality conditions, especially in winter or on rainy days, one must expect a charge time many times over.  - Note stating that the functional safety may be restricted under unfavourable conditions of use, such as shading, unfavourable orientation or tilt angle of the solar module.  - The equivalent of the measured charge time under close-to-reality conditions in accordance with the calculation rule in Appendix 2. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.4.** | **General Requirement** |  |  |
|  | Right to use the CE Label |  |  |
|  |  | **Annex 4** |  |
| **3.5.** | **Manufacturer’s Warranty** |  |  |
|  | Applicant declares compliance with the requirements for manufacturer’s warranty pursuant to para. 3.5. of the Basic Criteria. |  |  |
|  | The product literature includes warranty information. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.6.** | **Requirements for Accumulators** |  |  |
| **3.6.1** | **Replaceability of Accumulators** |  |  |
|  | Applicant declares compliance with the requirements for replaceability of accumulators pursuant to para. 3.6.1. of the Basic Criteria. |  |  |
|  | The product literature includes information on the replaceability of accumulators. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.6.2** | **Ban on Cadmium-Containing Accumulators** |  |  |
|  | Applicant declares compliance with the requirements pursuant to para. 3.6.2. of the Basic Criteria. |  |  |
|  | The product literature includes information on the use of cadmium-free replacement accumulators. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.6.3** | **Safety Measures for Protection of Accumulator and External Devices** |  |  |
|  | Applicant declares compliance with the safety measure requirements pursuant to para. 3.6.3. of the Basic Criteria. |  |  |
| **3.6.4** | **Instructions for Proper Disposal** |  |  |
|  | Applicant declares compliance with the requirements pursuant to para. 3.6.4. of the Basic Criteria. |  |  |
|  | The product literature includes instructions for proper disposal. |  |  |
|  | **Page** | **Annex 5** |  |
| **3.7** | **Material Requirements** |  |  |
| **3.7.1** | **Material Requirements for Plastics used in Housings and Housing Parts** |  |  |
|  | Applicant declares compliance with all requirements pursuant to para. 3.7.1. of the Basic Criteria. |  |  |
|  | Attached hereto is manufacturer’s declaration on plastic materials. |  |  |
|  |  | **Annex 2** |  |
|  | The chemical designation of the flame retardants used (CAS No.) is confidentially reported to RAL gGmbH. |  |  |
|  |  | **Annex 3** |  |
| **3.7.2** | **Other Material Requirements** |  |  |
|  | Applicant declares that neither PBBs, nor PBDEs nor chlorinated paraffins have been added to the carrier material of printed circuit boards. |  |  |
|  | Attached hereto is the declaration from the manufacturers of printed circuit boards. |  |  |
|  |  | **Annex 6** |  |

**Annexes to the Contract pursuant to DE-UZ 116**

Please use this form of Annex 1 to the Contract pursuant to DE-UZ 116.

Please attach the following Annexes 2 to 7 to the application documents:

Annex 2: Manufacturer/supplier declaration on plastic materials (form)

Annex 3 Declaration on the chemical designation of the flame retardants used  
(CAS No.)

Annex 4: License to use the CE Label

Annex 5: Relevant pages of the Operating Instructions

Annex 6: Declaration from the Manufacturer/Supplier of Printed Circuit Boards

Annex 7: a) Information on Functional Safety according to para. 3.1 (form)

b) Measurement protocol pursuant to para. 3.2.1 (form)

c) Measurement protocol pursuant to para. 3.3.1 or Appendix 1 (form)

d) Measurement protocol on low-light conditions pursuant to para. 3.3.1.  
 (form)

e) Simulation results protocol pursuant to para. 3.3.1.a)

|  |  |  |  |
| --- | --- | --- | --- |
| **Place:** |  |  |  |
|  |  |  |
| **Date:** |  |  |

**Legally binding signature /company stamp**