|  |  |  |
| --- | --- | --- |
| **Annex 7d to the Contract pursuant to RAL-UZ 116**  **Blue Angel Eco-Label**  **for „Solar-Powered Products“** |  | **Please use this  form!** |

Manufacturer (Applicant):

Distributor (Label User):

Brand / Trade name:

Type designation:

### Measurement Protocol pursuant to para. 3.3.1 of the RAL-UZ 116 Basic Criteria

Measurement Protocol on the Charge Current of the Solar Module under Low-Light Conditions (AM 1.5 / 50 ±10 W/m2)

|  |  |  |
| --- | --- | --- |
| Date: |  | |
| Protocol No.: |  | |
| Measuring facility/devices: |  | |
| Test Setup (possibly photo): |  | |
| Accuracy of instruments: |  | |
| Person conducting the test: |  | |
| Product under test: |  | |
| Item number: |  | |
| Serial number: |  | |
| Nominal capacity of the accumulator according to data sheet: |  | |
| Module temperature during measurement: |  | |
| Ambient temperature (= temperature of charger and accumulator): |  | |
| Accumulator terminal voltage during measurement: |  | |
| Irradiance during measurement: | Minimum       [ W/m² ] | Maximum       [ W/m² ] |
| Charge current into the accumulator: | Minimum       [ A ] | Maximum       [ A ] |
| Low-light-charge-current-to-charge- current-under-NOCT-conditions ratio: | Minimum       [ % ] | Maximum       [ % ] |

Requirements for Conducting the Measurement:

Light intensity: 50 ±10W/m2

Light spectrum: AM1.5 / Class B (Accuracy of the spectrum according to IEC904-9). The reduced light intensity can be realised, for example, by use of a standard solar simulator (type: intensity range of 500-1000W/m2) with appropriate grey filters.

Homogeneity of the light field: Class B (according to IEC904-9)

Module and ambient temperature: 25 ±5°C

Charge state of the accumulator: 80 percent full at least

Charge current: minimum 3 percent of the value measured under NOCT conditions

Other requirements: the same type of accumulator/device as for the measurements 2-4 shall be used for different accumulator types or different external devices to be charged.

Place:       Applicant:

(legally binding signature and

Date:       company stamp)