PV PRODUCTS

# Corrosive atmosphere resistance testing

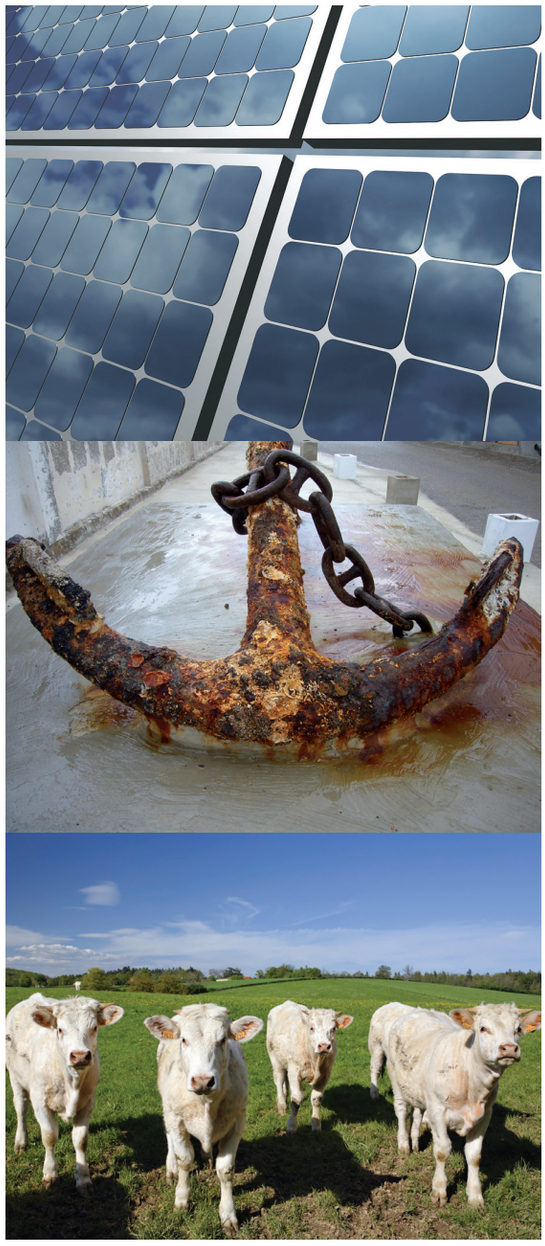
GCC Electrical Testing Laboratory
المختبر الفليبي لفحص المعدات الكهربائية

*Today's PV modules are installed in a variety of new environments like open field land, landfills, commercial & industrial (C&I) and residential rooftops. Many of these environments can add extra stressors on the materials of the PV components due to site specific micro-climates. The influence of a marine environment on component corrosion, such as on boat hulls and anchors, is well anticipated as a performance factor. Furthermore man-kind driven pollutants such as ammonia in close proximity to e.g. pig houses are in consideration in the PV industry, as they could impact the long term reliability of the PV systems.*

## Salt Mist and Ammonia Resistance Tests

PV components installed on farm houses and in costal environments should be tested for their resistance against ammonia and salt mist. For this purposes UL is offering PV manufactures the possibility to test modules according to IEC 61701 and IEC 62716.

| **Test Item** | Salt Mist | | Ammonia |
|---|---|---|---|
| **Standard** | IEC 61701 ed.2 | | IEC 62716 |
| **Samples** | 3 samples each type | | 3 samples each type |
| **Severity Level** | 5 | 6 | N/A |
| **Test time** | 5 weeks | 9 weeks | 4 weeks |
| **Test Process** | **Precondition** → **Visual Inspection** → **Initial Measurement** → **Salt Mist or Ammonia resistance Test** → **Recovery & Cleaning** → **Final Measurement** | | |



## Your benefits:

- Applied environment exposure and evidence of performance
- International recognition for performance characteristics beyond market access certification
- Market differentiation and increased competitiveness
- Single point of contact for global market access

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