



**TEST REPORT**  
**IEC 60950-1**  
**Information technology equipment – Safety –**  
**Part 1: General requirements**

**Report Number.....:** 071-75942068-000

**Date of issue.....:** 2018-08-15

**Total number of pages.....:** 30

**Applicant's name.....:** Lars Thrane A/S

**Address.....:** Skovlytoften 33, Holte, DK-2840, DENMARK

**Test specification:**

**Standard.....:** IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013

**Test procedure.....:** Private

**Non-standard test method.....:** N/A

**Test Report Form No. ....:** IEC60950\_1F

**Test Report Form(s) Originator ....:** SGS Fimko Ltd

**Master TRF.....:** Dated 2014-02

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**General disclaimer:**

The test results presented in this report relate only to the object tested.

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|  |  |  |
|--|--|--|
| <b>Test item description</b> ..... :                                     | Satellite telephone system                                       |  |
| <b>Trade Mark</b> ..... :  | Lars Thrane Communication Systems                                |  |
| <b>Manufacturer</b> .....  | Lars Thrane A/S  |  |
| <b>Model/Type reference</b> .....  | LT-3100  |  |
| <b>Ratings</b> .....   | 10-32Vdc, 3.7-1.2A   |  |
| <b>Testing procedure and testing location:</b>                           |  |  |
| <input type="checkbox"/> <b>Testing Laboratory:</b>                      | TÜV SÜD Product Service  |  |
| <b>Testing location/ address</b> .....                                   | Snitterfield Road, Bearley, Stratford-upon-Avon,<br>CV37 0EX, UK |  |
| <input type="checkbox"/> <b>Associated Testing Laboratory:</b>           |  |  |
| <b>Testing location/ address</b> .....                                   |  |  |
| <b>Tested by (name + signature)</b> .....                                | Alastair McLaughlin<br>Product Safety<br>Specialist              |   |
| <b>Approved by (name + signature)</b> .....                              | Matt Emery<br>Reviewing engineer                                 |  |
| <input type="checkbox"/> <b>Testing procedure: TMP/CTF Stage 1:</b>      |  |  |
| <b>Testing location/ address</b> .....                                   |  |  |
| <b>Tested by (name + signature)</b> .....                                |  |  |
| <b>Approved by (name + signature)</b> .....                              |  |  |
| <input type="checkbox"/> <b>Testing procedure: WMT/CTF Stage 2:</b>      |  |  |
| <b>Testing location/ address</b> .....                                   |  |  |
| <b>Tested by (name + signature)</b> .....                                |  |  |
| <b>Witnessed by (name + signature)</b> .....                             |  |  |
| <b>Approved by (name + signature)</b> .....                              |  |  |
| <input type="checkbox"/> <b>Testing procedure: SMT/CTF Stage 3 or 4:</b> |  |  |
| <b>Testing location/ address</b> .....                                   |  |  |
| <b>Tested by (name + signature)</b> .....                                |  |  |
| <b>Witnessed by (name + signature)</b> .....                             |  |  |
| <b>Approved by (name + signature)</b> .....                              |  |  |
| <b>Supervised by (name + signature)</b> .....                            |  |  |

|  |   |  |
|--|---|--|
| <b>List of Attachments (including a total number of pages in each attachment):</b>   |   |  |
| Attachment 1   | European Group Differences and National Differences | 20 pages   |
| Attachment 2   | IEC 60950-22: Equipment to be installed outdoors    | 18 pages   |
| Attachment 3   | Photographic Record                                 | 7 pages  |
| <b>Summary of testing:</b>   |   |  |
| The sample was tested for compliance with the standards listed on page 1 and page 3  |   |  |
| <b>Tests performed (name of test and test clause):</b><br>Input current & power, 1.6.2<br>Durability of markings, 1.7.11<br>Energy hazards, 2.1.1.5<br>Energy hazards – DC mains, 2.1.1.8<br>Disconnection from the mains supply, 3.4.1<br>Impact test, 4.2.5<br>Wall mounting (applied for mounting at height), 4.2.10<br>Thermal requirements, 4.5<br>Abnormal operation and fault conditions, 5.3<br>Cable distribution systems, 7<br><br>EN 60945:2002 – the following clause only:<br>Excessive conditions, 7.2 |   | <b>Testing location:</b><br>TÜV SÜD Product Service,<br>Snitterfield Road, Bearley, Stratford-upon-Avon,<br>CV37 0EX, UK |
| <b>Summary of compliance with National Differences:</b>  |   |  |
| <b>List of countries addressed:</b> See attachment 1   |   |  |
| <input checked="" type="checkbox"/> <b>The product fulfils the requirements of:</b><br>IEC 60950-1:2005 (Second Edition) + A1:2009 + A2:2013<br>EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013<br>EN 60950-22:2006 +A11:2008 (see attachment 2)<br>EN 60945:2002 clause 7.2 only (see clause 5.3 of this report)  |   |  |



**TEST REPORT**  
**IEC 60950-22**  
**Information technology equipment**  
**Safety – Part 22: Equipment to be installed outdoors**

**Report Reference No.** ..... : 071-75942068-010

**Date of issue**..... : 2018-08-15

**Total number of pages**..... : 18

**Testing Laboratory** ..... : TÜV SÜD Product Service

**Address**..... : Snitterfield Road, Bearley, Stratford-upon-Avon,  
CV37 0EX, UK

**Applicant's name** ..... : Lars Thrane A/S

**Address** ..... : Skovlytoften 33, Holte, DK-2840, DENMARK

**Test specification:**

**Standard** ..... : IEC 60950-22 : 2005 (1<sup>st</sup> Edition)

**Test procedure** ..... : Private

**Non-standard test method**..... : N/A

**Test Report Form No.**..... : IEC60950\_22A

**Test Report Form(s) Originator** ..... : The Standards Institution of Israel Ltd.

**Master TRF**..... : Dated 2007-03

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**Test item description** ..... : Satellite telephone system

**Trade Mark** ..... : Lars Thrane Communication Systems

**Manufacturer** ..... : Lars Thrane A/S

**Model/Type reference**..... : LT-3100

**Ratings**..... : 10-32Vdc, 22W

|  |   |
|--|---|
| <b>Testing procedure and testing location:</b>                 |   |
| <input checked="" type="checkbox"/> <b>Testing Laboratory:</b> |   |
| Testing location/ address .....                                | TÜV SÜD Product Service<br>Snitterfield Road, Bearley, Stratford-upon-Avon,<br>CV37 0EX, UK |
| <input type="checkbox"/> <b>Associated Test Laboratory:</b>    |   |
| Testing location/ address .....                                |   |
| Tested by (name + signature) .....                             | Alastair McLaughlin   |
| Approved by (+ signature) .....                                | Matt Emery  |
| <input type="checkbox"/> Testing procedure: TMP                |   |
| Tested by (name + signature) .....                             |   |
| Approved by (+ signature) .....                                |   |
| Testing location/ address .....                                |   |
| <input type="checkbox"/> Testing procedure: WMT                |   |
| Tested by (name + signature) .....                             |   |
| Witnessed by (+ signature) .....                               |   |
| Approved by (+ signature) .....                                |   |
| Testing location/ address .....                                |   |
| <input type="checkbox"/> Testing procedure: SMT                |   |
| Tested by (name + signature) .....                             |   |
| Approved by (+ signature) .....                                |   |
| Supervised by (+ signature) .....                              |   |
| Testing location/ address .....                                |   |
| <input type="checkbox"/> Testing procedure: RMT                |   |
| Tested by (name + signature) .....                             |   |
| Approved by (+ signature) .....                                |   |
| Supervised by (+ signature) .....                              |   |
| Testing location/ address .....                                |   |

**Summary of testing:**

The sample was tested for compliance with the standards listed on page 1 and page 3

**Tests performed (name of test and test clause):**

None required – examination of data provided

**Testing location:**

TÜV SÜD Product Service,  
Snitterfield Road, Bearley, Stratford-upon-Avon,  
CV37 0EX, UK

**Summary of compliance with National Differences:**

See main report TÜV SÜD Product Service 071-75942068-000

**Copy of marking plate**

See main report TÜV SÜD Product Service 071-75942068-000