



DEHN Test Centre

Confirmation of test result



Confirmation of test report no. 2452_FRM

Test object: **Module Carrier SmartSolarBox V5.0 (reduced length of 600 mm);**
manufacturer Smartvolt
incl. 2x seam clamp with double clamp (Part No. 365 019) with
aluminium wire (Ø 8 mm), 2x bridging cable 300 mm
(Part No. 377 310); manufacturer DEHN
Cable lug of bridging cable fixed with 2x blind rivet flat head alu/steel
galvanized 6 x 10 (Art.-no. 09366 10); manufacturer Würth

Applicant: *Smartvolt AG*
Byfangstrasse 3
3360 Herzogenbuchsee
Switzerland

Type of testing:

- Test of the lightning impulse current carrying capability of the test classification N (50 kA) following the principles of IEC 62561-1:2017-03 (Edition 2.0), chapter 6.3.1 and chapter 6.4.
- The content of IEC 62561-1:2017-03 compared to SN EN 62561-1:2017, are technically identical. The result can therefore be applied to SN EN 62561-1:2017.
- Evaluation of the PV flat roof mounting system as natural down-conductor of a lightning protection system, following the principles of IEC 62305-3:2010-12 (Edition 2.0), chapter 5.3.5.

Test result:

- **The test of the lightning current capability of the photovoltaic mounting system SmartSolarBox V5.0 for the test classification N (50 kA) passed the criteria following IEC 62561-1.**
- **The evaluation of the photovoltaic system according to IEC 62305-3, chapter 5.3.5, for compliance with the minimum dimensions was carried out by the applicant.**
- **This confirmation only provides information on the test samples submitted for the test and does not examine the lasting quality of the series production.**

Reference: The complete test results and the detailed description of the test samples may be taken from the test report no. 2452_FRM.

Neumarkt, 9th November 2023

Revision: 0

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