Prüfbericht - Produkte *Test Report - Products*



| Test Report - Products | | | the second s | |
|---|---|---|--|---|
| Prüfbericht-Nr.: Test report no.: | 60413038 001 | Auftrags-Nr.: Order no.: | 150229039 | Seite 1 von 6 Page 1 of 6 |
| Kunden-Referenz-Nr.: Client reference no.: | N/A | Auftragsdatum: Order date: | 2020.09.02 | |
| Auftraggeber: Client: | SolaX Power Network Techr No.288,Shizhu Road, Tonglu Province 310000, P. R. Chir | u Economic Develop | | City, Zhejiang |
| Prüfgegenstand: Test item: | Secondary System, LiFePO | 4 | | |
| Bezeichnung / Typ-Nr.: Identification / Type no.: | T-BAT H 5.8 (Master Pack) HV11550 (Slave Pack) | | | |
| Auftrags-Inhalt: Order content: | Safety test | | | |
| Prüfgrundlage: Test specification: | SII Requirement: 2020 Earthquake disaster counter 2) Test for Energy storage s | | ush test | |
| Wareneingangsdatum: Date of sample receipt: | 2020.09.10 | Perel | 13 | |
| Prüfmuster-Nr.: Test sample no: | See TABLE | | | 1- |
| Prüfzeitraum: Testing period: | 2020.10.07 - 2020.10.07 | | | |
| Ort der Prüfung: Place of testing: | See Page 2 | | | ~ |
| Prüflaboratorium: Testing laboratory: | See Page 2 | | | 1 |
| Prüfergebnis*: Test result*: | Pass | | | |
| geprüft von: tested by:Y.Yamanaka | 11/12 / | genehmigt von: authorized by: Y. | Yao | Max- |
| Datum: Date: 2020.10.20 | F. Journal | Ausstellungsdat Issue date: 2020 | U | |
| Stellung / Position: P | Project Engineer | Stellung / Position: | Project Engi | neer |
| Sonstiges / Other: | | | | |
| Zustand des Prüfgegens Condition of the test item a | at delivery: | Test item complete | dig und unbeschädig and undamaged | |
| * Legende: P(ass) = entspricht o * Legend: P(ass) = passed a.m | | nicht o.g. Prüfgrundlage(n) test specification(s) | N/A = nicht anwendbar N/A = not applicable | N/T = nicht geteste N/T = not tested |
| Dieser Prüfbericht bezieht auszugsweise vervielfältigt v This test report only relates to | sich nur auf das o.g. Prüfn werden. Dieser Bericht berechtig o the a. m. test sample. Without p t report does not entitle to carry any | nuster und darf oh t nicht zur Verwendu ermission of the test c | ne Genehmigung de ng eines Prüfzeichens | r Prüfstelle nich |



| Testing location: | | |
|--------------------|--|--|
| Place of testing | TÜV Rheinland Japan Ltd., | |
| | Kansai Technology Assesment Center (KTAC) | |
| | 1-3-14 Fukaeminami, Higashinari-ku | |
| | Osaka 537-0002 Japan | |
| Testing laboratory | TÜV Rheinland Japan Ltd., Osaka Laboratory | |
| | 1-3-14 Fukaeminami, Higashinari-ku | |
| | Osaka 537-0002 Japan | |

Tests performed (name of test and test clause):

Earthquake disaster countermeasure standard according to SII requirement: 2020

- 2) Test for Energy storage system, Enclosure crush test

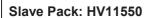
Photo of sample:

Master Pack: T-BAT H 5.8





Photo of sample:







| Test item designation | |
|---|--------------------|
| Master Pack | |
| Identification / Type No: | T-BAT H 5.8 |
| Gross mass | 72.2 kg |
| Dimension(W x D x H) | 474 x 193 x 708 mm |
| Rated Voltage | 115.2 V |
| Rated Capacity: | 50 Ah |
| Slave Pack | |
| Identification / Type No: | HV11550 |
| Gross mass | 68.5 kg |
| Dimension(W x D x H) | 474 x 193 x 647 mm |
| Rated Voltage | 115.2 V |
| Rated Capacity: | 50 Ah |
| Possible test case verdicts | |
| - test case does not apply to the test object | N/A |
| - test object does meet the requirement | P (Pass) |
| - test object does not meet the requirement | F (Fail) |



| SII Requirement :2020 | | | | |
|-----------------------|--|-----------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 1 | Earthquake disaster countermeasure standard | | | |
| 1.2 | 2) Test for Energy storage system, Enclosure crush test | | Р | |
| | Apply a pressure of 50 kN on the top surface of the enclosure of the energy storage system with a flat plate (holding time: 10 minutes), and check that the enclosure does not deform while still under the pressure. The criteria is that the enclosure of the energy storage system does not deform between the top and bottom surfaces. However, deformation within 1% is acceptable. The number of test is one. In addition, it is recommended to take measures for seismic support (anchor bolts, etc.) when installing equipment. | | P | |

TABLE:

| Туре No. | T- BAT H 5.8 | HV11550 |
|------------------------------------|---------------|----------------|
| Sample No.: | 6S58AG819AC85 | 6S58BG819AC035 |
| Height of enclosure [mm] before | 692.5 | 631.5 |
| Deformation [mm] | 5.22 | 4.94 |
| Deformation [%] | 0.75 | 0.78 |
| Verdict (SII requirement) | <u>P</u> | <u>P</u> |



List of test equipment used:

| Clause | ID | Testing / measuring equipment / material used | Туре | Manufacturer | Calibration due date |
|--------|---------|---|---------------------|--------------|-------------------------|
| 1.2 | ML-0065 | Memory HiLogger | LR8400-20 | Hioki | 2021.05.08 |
| | ML-0089 | Crush Tester (Force) | TGI-250kN- W1220 | Minebea | 2021.05.07 |
| | ML-0399 | Crush Tester (Position) | TGI-250kN- W1220 | Minebea | 2021.06.23 |
| | ML-0133 | Ruler 1000mm | 1000mm | Shinwa | 2021.07.09 |

- End of Test report-