TÜVRheinland®

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 Technology (Zhejiang) Co., Ltd. No.288,Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province 310000, P. R. China
Prüfgegenstand: *Test item:*	Secondary System, LiFePO4
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 countermeasure standard *2) Test for Energy storage system, Enclosure crush test*

Wareneingangsdatum: *Date of sample receipt:*	2020.09.10
Prüfmuster-Nr.: *Test sample no:*	See TABLE
Prüfzeitraum: *Testing period:*	2020.10.07 – 2020.10.07
Ort der Prüfung: *Place of testing:*	See Page 2
Prüflaboratorium: *Testing laboratory:*	See Page 2
Prüfergebnis*: *Test result*:*	Pass

geprüft von: *tested by:Y.Yamanaka*		**genehmigt von:** *authorized by: Y.Yao*	
Datum: *Date:* 2020.10.20		**Ausstellungsdatum:** *Issue date:* 2020.10.20	
Stellung / *Position:*	**Project Engineer**	**Stellung** / *Position:*	**Project Engineer**

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*	Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

TÜVRheinland®

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:
Slave Pack: HV11550

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)

TÜVRheinland®

SII Requirement :2020			
Clause	Requirement + Test	Result - Remark	Verdict
1	**Earthquake disaster countermeasure standard**		**P**
1.2	**2) Test for Energy storage system, Enclosure crush test**		**P**
	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.	Results: Deformation within 1%. See appended table.	P

TABLE:

Type 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)	P	P

TÜVRheinland®

 List of test equipment used:

Clause	ID	Testing / measuring equipment / material used	Type	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-