

Procedural Review Voting Sheet

2013 Cycle 1

REGION: **China**

COMMITTEE: PV

EVENT: **SOLARCON China 2013**

DATE OF MEETING: 2013/3/18

PLACE OF MEETING: Kerry Hotel, Shanghai, China

COMMITTEE CO-CHAIRS: Guangchun Zhang/Canadiansolar, Jun Liu/CESI

SEMI STAFF: Kris Shen

A&R Voter: Name/Company

Date: 200X/MM/DD

I. Document Number & Title

Document 5384	Document Title New Standard: Specification for Package Protection Technology for PV Modules
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II. Tally (Staff to fill in)

Voting Tally: As-cast tally after close of voting period

A minimum of 60% of the voting interests that have voting members within the technical committee must return votes. (Regulations ¶ 9.6.1)

	Return		Distribution		Return Rate	
Yellow	87	÷	144	=	60.4%	>=60%
Lilac & Others	52					
Total Vote	139					
Reject	0					
Accept	38					

A&R		Not approved
		Reason:

III. Rejects

There was no reject submitted on the ballot.

IV. Comments

Comment 1

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Baylies, Winthrop (BayTech)
	Comment	Clarify the relationship with SEMI PV23 - Test PV Module Vibration in Shipping
	Discussion	<p>We have discussed the comment with Winthrop Baylies before China PV Standards Committee Meeting, the feedback of us is as follows, no reject comment received again from him.</p> <p>We have discussed the two standards carefully in Task Force meetings before. Two standards are both applicable to crystalline silicon PV modules. However, the difference between them are as follows:</p> <p>SEMI PV23-1011 is the vibration test to the modules without package. It's intended for examining the anti-vibration performance of module itself. Meanwhile, the power spectral density level (PSD) of vibration is referred to ASTM 4169.</p> <p>SEMI 5384 is intended for specifying package protection technology during transportation. The test procedure is performed on the unit load (modules with package), and simulates the whole transportation process between manufacturers and customers including vibration. PSD here is referred to ISTA 3E, which is collected around the whole world by ISTA (International Safe Transit Association) researchers and it's updated in time. The PSD here covers the PSD in ASTM 4169.</p> <p>In addition, there are electrical property tests like wet leakage current test in SEMI PV23. According to the discussion in Task Force, they're not related to module transportation process. So we don't list them in our standard draft.</p> <p>Discussion in the meeting</p> <p>1) Question by Tang Yingtang Transport mode should be considered in module package. For example, package should be different to transport in and out of the country. Answer: Yes, different package mode will be certainly considered by module manufacturers due to the consideration of cost. However, the module package must pass the basic tests to guarantee the package performance.</p> <p>2) Question about PSD Is the PSD suitable here. Answer: PSD here is referred to ISTA 3E, which is collected around the whole world by ISTA (International Safe Transit Association) researchers and it's updated in time. The PSD here covers the PSD in ASTM 4169. Similar PSD and test method are applied in electrical product package industry and some other delicate product package. According to the practice in PV module industry, the PSD and test method here are able to characterize the package performance.</p>
Action Proposed	X	The committee agreed to do one of the following actions.
		*No motion is required in this step.
	X	No further action was taken by the committee.
		Refer to the task force for more consideration.

		New Business
		Other
Editorial Change		
		Case 1: No vote in this section :
		To be included and voted on in <u>§ 5. Summary of Editorial Changes.</u>
		Case 2: Voted in this section :
		Original section number and at least one full sentence are required in “FROM” and “TO” fields.
1		FROM: Section xxx
		To: Section xxx
		Justification (If necessary)
2		FROM: Section xxx
		To: Section xxx
		Justification (If necessary)
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R		Not approved
		Reason:

Comment 2

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Hsu, Shu-Tsung, (ITRI)
	Comment	I would like to know what is the detailed requirement written in C8.1 that shall be able to define the distortion or damage condition for unit package specification after reliability test ?

	Discussion	<p>We have discussed the comment with Shu-Tsung Hsu before China PV Standards Committee Meeting, the feedback of us is as follows, no reject comment received again from him.</p> <p>The judgment to package after test is focused on: Whether the package is distorted seriously, whether it would influence the products, whether the damage of package materials has lost its function.</p> <p>Actually to industrial products, customers will accept the package damage which doesn't influence the product performance.</p> <p>According to the discussion in the first Task Force meeting, the requirements here are not suitable for quantitative description, but suitable for the qualitative description. We will measure and record the visual distortion of dimensions (length, width, and height) of the unit load, and take photos to record the distortion/damage condition. These measures would be helpful to the judgment.</p> <p>Discussion in the meeting</p> <p>1) Question about quantitative or qualitative description (which is more suitable in the standard)</p> <p>Answer: In the beginning, we gave qualitative description in the standard. However, we discussed it carefully in the TF meeting. TF members are agreed on that, the requirements here are not suitable for quantitative description, but suitable for the qualitative description. The judgment to package after test is focused on: whether the package is distorted seriously, whether it would influence the products, whether the damage of package materials has lost its function. As a result, the quantitative description is adopted in the standard draft now.</p>
Action proposed	X	The committee agreed to do one of the following actions.
		*No motion is required in this step.
	X	No further action was taken by the committee.
		Refer to the task force for more consideration.
		New Business
		Other
	Editorial Change	
		Case 1: No vote in this section :
		To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section :
	Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
1	FROM: Section xxx	
	To: Section xxx	
	Justification (if necessary)	
2	FROM: Section xxx	

		To: Section xxx
		Justification (If necessary)
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R	<input type="checkbox"/>	Not approved
	<input type="checkbox"/>	Reason:

Comment 3

Comment	Referenced Section	*TF/Committee to fill in if necessary		
	From	Kelly, George, (BPS)		
	Comment	Editorial changes suggested as follows: 5.2.1- omitted paragraph numbering for "AH"		
	Discussion	Adopt		
Action proposed	<input checked="" type="checkbox"/>	The committee agreed to do one of the following actions. *No motion is required in this step.		
	<input type="checkbox"/>	No further action was taken by the committee.		
	<input type="checkbox"/>	Refer to the task force for more consideration.		
	<input type="checkbox"/>	New Business		
	<input checked="" type="checkbox"/>	Other		
	Editorial Change	Adopt the editorial change according to the comment.		
	<input checked="" type="checkbox"/>	Case 1: No vote in this section :	To be included and voted on in <u>§ 5. Summary of Editorial Changes.</u>	
	<input type="checkbox"/>	Case 2: Voted in this section :	Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
	1	FROM:		
		To: Section		
	Justification (If necessary)			
Motion by/2nd	Name (Company)/Name (Company)			
Vote	XX-XX Motion passed (or failed)			
A&R	<input type="checkbox"/>	Not approved		

	Reason:
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Comment 4

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Kelly, George, (BPS)
	Comment	Editorial changes suggested as follows: 5.3.1 Unit Load – A single load for transportation made up of products and packaging materials, usually consisting of one or more products or packaged-products usually on a skid or pallet, secured together for distribution as a whole.
	Discussion	Adopt
Action proposed	X	The committee agreed to do one of the following actions. *No motion is required in this step.
		No further action was taken by the committee.
		Refer to the task force for more consideration.
		New Business
	x	Other
	Editorial Change	Adopt the editorial change according to the comment.
	x	Case 1: No vote in this section : To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section : Original section number and at least one full sentence are required in “FROM” and “TO” fields.
	1	FROM: To: Justification (If necessary)
	2	FROM: Section xxx To: Section xxx Justification (If necessary)

Motion by/2nd	Name (Company)/Name (Company)
Vote	XX-XX Motion passed (or failed)
A&R	<input type="checkbox"/> Not approved Reason:

Comment 5

Comment	Referenced Section	*TF/Committee to fill in if necessary		
	From	Kelly, George, (BPS)		
	Comment	Editorial changes suggested as follows: 6.1.2 Check Visually inspect and record the appearance of PV modules.		
	Discussion	Adopt		
Action proposed	<input checked="" type="checkbox"/>	The committee agreed to do one of the following actions. *No motion is required in this step.		
	<input type="checkbox"/>	No further action was taken by the committee.		
	<input type="checkbox"/>	Refer to the task force for more consideration.		
	<input type="checkbox"/>	New Business		
	<input checked="" type="checkbox"/>	Other		
	Editorial Change	Adopt the editorial change according to the comment.		
	<input checked="" type="checkbox"/>	Case 1: No vote in this section :	To be included and voted on in § 5. Summary of Editorial Changes.	
	<input type="checkbox"/>	Case 2: Voted in this section :	Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
	1	FROM:		
		To:		
	Justification (If necessary)			
2	FROM: Section xxx			
	To: Section xxx			
	Justification (If necessary)			
Motion by/2nd	Name (Company)/Name (Company)			
Vote	XX-XX Motion passed (or failed)			
A&R	<input type="checkbox"/> Not approved			

Reason:

Comment 6

Comment	Referenced Section	*TF/Committee to fill in if necessary		
	From	Kelly, George, (BPS)		
	Comment	Editorial changes suggested as follows: 6.1.3should be better than +/-1%, to eliminate minimize the influencing influence of factors other than the packaging on the electrical performance test excluding package .		
	Discussion	Adopt		
Action proposed	<input checked="" type="checkbox"/>	The committee agreed to do one of the following actions.		
		*No motion is required in this step.		
	<input type="checkbox"/>	No further action was taken by the committee.		
	<input type="checkbox"/>	Refer to the task force for more consideration.		
	<input type="checkbox"/>	New Business		
	<input checked="" type="checkbox"/>	Other		
	Editorial Change	Adopt the editorial change according to the comment.		
	<input checked="" type="checkbox"/>	Case 1: No vote in this section :	To be included and voted on in § 5. Summary of Editorial Changes.	
	<input type="checkbox"/>	Case 2: Voted in this section :	Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
	Motion by/2nd	1	FROM:	
To:				
Justification (If necessary)				
2		FROM: Section xxx		
		To: Section xxx		
		Justification (If necessary)		
Vote		XX-XX Motion passed (or failed)		
A&R	<input type="checkbox"/>	Not approved		

	Reason:
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Comment 7

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Kelly, George, (BPS)
	Comment	Editorial changes suggested as follows: 6.2.1.1 – delete entire paragraph, and clarify in the following paragraph: 6.2.1.2 Place the unit load in the test environment laboratory in its designed transport orientation, and maintain it for 12 hours, or sufficient time to reach equilibrium of all parts of the package and product is recommended with laboratory ambient conditions.
	Discussion	Adopt
Action proposed	X	The committee agreed to do one of the following actions. *No motion is required in this step.
		No further action was taken by the committee.
		Refer to the task force for more consideration.
		New Business
	x	Other
	Editorial Change	Adopt the editorial change according to the comment.
		Case 1: No vote in this section : To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section : Original section number and at least one full sentence are required in “FROM” and “TO” fields.
	1	FROM: To: Justification (If necessary)
	2	FROM: Section xxx To: Section xxx Justification (If necessary)
Motion by/2nd		Name (Company)/Name (Company)

Vote		XX-XX Motion passed (or failed)
A&R		Not approved
		Reason:

Comment 8

Comment	Referenced Section	*TF/Committee to fill in if necessary		
	From	Kelly, George, (BPS)		
	Comment	6.2.6.1test is performed with random test system for at least.....		
	Discussion	Adopt		
Action proposed	<input checked="" type="checkbox"/>	The committee agreed to do one of the following actions.		
		*No motion is required in this step.		
	<input type="checkbox"/>	No further action was taken by the committee.		
	<input type="checkbox"/>	Refer to the task force for more consideration.		
	<input type="checkbox"/>	New Business		
	<input checked="" type="checkbox"/>	Other		
	Editorial Change	Adopt the editorial change according to the comment.		
	<input checked="" type="checkbox"/>	Case 1: No vote in this section :	To be included and voted on in <u>§ 5. Summary of Editorial Changes.</u>	
	<input type="checkbox"/>	Case 2: Voted in this section :	Original section number and at least one full sentence are required in “FROM” and “TO” fields.	
	1	FROM:		
To				
Justification (If necessary)				
2	FROM: Section xxx			
	To: Section xxx			
	Justification (If necessary)			
Motion by/2nd	Name (Company)/Name (Company)			
Vote	XX-XX Motion passed (or failed)			

A&R	Not approved
Reason:	

V. Summary of Editorial Changes

Note: Original section number and at least one full sentence are required in “FROM” and “TO” fields.

1	FROM: Section 5.2 5.2 Abbreviations and Acronyms AH —Test Load Apply and Hold
	To: Section 5.2 5.2 Abbreviations and Acronyms 5.2.1 AH —Test Load Apply and Hold
	Justification: (if necessary) Formatting error.
2	FROM: Section 5.3.1 Unit Load - A single load for transportation made up of products and packaging materials. Put one or more products or packaged-products usually on a skid or pallet, secure together for distribution as a whole.
	To: Section 5.3.1 Unit Load - A single load for transportation made up of products and packaging materials, <u>usually consisting of.</u> Put one or more products or packaged-products usually on a skid or pallet, secured together for distribution as a whole.
	Justification: Clarification of the definition. No technical change is introduced
3	FROM: Section 6.1.2 Check and record the appearance of PV modules.
	To: Section 6.1.2 Check <u>Visually</u> inspect and record the appearance of PV modules.
	Justification: For clarification
4	FROM: Section 6.1.3 Repeatability of the maximum power measurement should be better than $\pm 1\%$, to eliminate the influencing factors on the electrical performance test excluding package.
	To: Section 6.1.3 Repeatability of the maximum power measurement should be better than $\pm 1\%$, to eliminate minimize the <u>influencing influence of</u> factors <u>other than the packaging</u> on the electrical performance test excluding package .
	Justification For clarification. No technical change is introduced
5	FROM: Section 6.2.1.1 & 6.2.1.2 6.2.1.1 — Preconditioning atmospheric is displayed by temperature and humidity recording apparatus. Temperature and relative humidity of preconditioning ambient is the same as that in the test lab. 6.2.1.2 — Place the unit load in the test environment in its designed transport orientation, and maintain it

A&R	<input type="checkbox"/>	Not approved
	Reason:	

VII. Safety Check

See § 14 of the Regulations for further information

Motion:	<input checked="" type="checkbox"/>	This is not a Safety Document: when all safety-related information is removed, the document is still technically sound and complete.
	<input type="checkbox"/>	This is a Safety Document: when all safety-related information is removed, the document is not technically sound and complete.
	<input type="checkbox"/>	Safety Checklist (Regulations ¶ 14.3) is complete and has been included with the document throughout the balloting process.
Motion by/2nd by		Yaoyu Xiao (Trina)/Zhixin Li (JYT)
Discussion		None
Vote		17-0 Motion passed
A&R	<input type="checkbox"/>	Not approved
	Reason:	

VIII. Intellectual Property Check

Note: This ballot may be all or part of a Standard or Safety Guideline. This IP check applies to the entire Standard or Safety Guideline. See § 15 of the Regulations for further information

<input checked="" type="checkbox"/>	The meeting chair asked those present in person or by electronic link, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline.		
	<input checked="" type="checkbox"/>	No potentially material patented technology or copyrighted items are known	GO TO SECTION IX
	<input type="checkbox"/>	Potentially material patented technology or copyrighted items are known but a Letter of Assurance (LOA) or copyright release for such material has been obtained or presented to the committee.	GO TO SECTION IX
	<input type="checkbox"/>	Potentially material patented technology or copyrighted items are known but an LOA or copyright release for some of the material(s) has NOT been obtained or presented to the committee	
	N MOTION	<input type="checkbox"/>	Ask ISC for special permission to publish
<input type="checkbox"/>		Quit activity	

		Wait for LOA for patented technology or release of copyrighted items.
	Motion by/2nd by	Name (Company)/Name (Company)
	Discussion	XXXX
	Vote	XX-XX
	Final Action	Motion Passed
		Motion Failed
A&R		Not approved
		Reason:

* Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this ballot.

IX. Action for this document

Motion		This document passed committee review as balloted and will be forwarded to the A&R for procedural review.
	X	This document passed committee review with editorial changes and will be forwarded to the A&R for procedural review.
		This document failed committee review and will be returned to the task force for rework.
		This document failed committee review and work will be discontinued.
	Motion by/2nd by	Taoyun Xiao (Trina)/Zhixin Li (JYTCompany)
	Discussion	None
	Vote	17-0
	Final Action	X Motion passed
		Motion failed
A&R		Approved
		Not approved
		Reason: