

# PV Committee China TC Chapter PV Materials Committee China TC Chapter Joint Meeting Summary and Minutes

China Fall Standards Meeting 2022 November 4<sup>th</sup> and November 12<sup>th</sup>, 2022, 13:00-15:00 OVTCCM, China

#### **TC Chapter Announcements**

Next TC Chapter Meeting TBD, China, 2023

## **Table 1 Meeting Attendees**

Italics indicate virtual participants
Co-Chairs: Dengyuan Song (DASOLAR)

SEMI Staff: Cassie Li, Ein Wu

			I	1	
Company	Last	First	Company	Last	First
DASOLAR	Song	Dengyuan	LINTON	Li	Zhixin
RUNERGY	Chen	Rulong	Chint Solar	Xue	Xinying
Sinosico	Yan	Dazhou	RedSolar	Cai	Xianwu
CSI	Zhang	Guangchun	Shenzhen SC	Tan	Наоуип
CSI	Xu	Tao	Shanghai Jiaotong University	Zhang	Zhen
NAURA	Li	Buzhong	Hanergy	Bai	Yan
NAURA	Tian	Tao	JNU	Mai	Yaohua
JNU	Wu	Shaohang	AikoSolar	Fukui	Kenji
LONGi	Zhou	Rui	Shenzhen SC	Li	Shijun
Trinasolar	Zhou	Wei	Hanergy	Chen	Changxinzi
CSI	Guo	Suqin	Rutech	Xu	Fan
DASOLAR	Xu	Xingxing	NAURA	Sun	Pengtao
Trinasolar	Zhou	Yujia	Chint Solar	Zhou	Chengjun
ZhongHuan	Zhang	Xuenan	SUNLAND	Zhu	Jingbing
Leadmicro	Li	Weiming	Chint Solar	Zhang	Yue
Chint Solar	Wang	Jianing	Red Solar	Yang	Yao
SAFEST	Lu	Wenfeng	Henkel	Zhang	Jessica
Chint Solar	Li	Keqing	MDEP	LV	Jinbiao
Chint Solar	Chen	Pianpian	SAFEST	Lu	Wenfeng
Chint Solar	Lin	Sainv	LONGi	Fu	Nannan
Chint Solar	Wang	Shipeng	UtmoLight	Yu	Zhenrui
Xinyang Normal University	Lu	Xiaoman	LDK Solar	Li	Jianmin



Company	Last	First	Company	Last	First
HNCERI	Wang	Lichuang	LDK Solar	Luo	Hongzhi
CSI	Yang	Lianli	YONGZ TECHNOLOGY	Wei	Qingzhu
CSI	Wu	Yutong	YONGZ TECHNOLOGY	Jiang	Jianhui
CSI	Lv	Ruirui	Yong Xiang	Liu	Yifeng
Hanergy	Wu	Zhenyu	Yong Xiang	Wang	Yaping
Yingli	Li	Yingye	Yongxiang	Wang	Tianyou
Yingli	Lang	Fang	SunChine	Li	Xiang
Yingli	Yu	Во	Darbond	Yang	Hen
Yingli	Wang	Xiuxiang	Fujian Metrology	Li	Jiansheng
LONGi	Ren	Gaigai	Fujian Metrology	Luo	Haiyan
Talesun	Qian	Hongqiang	CESI	Chen	Xianda
DASOLAR	Huang	Chenru	CPVT	Lu	Jiayan
Jingrui	Li	Lu	CPVT	Pan	Sheng
SUNTECH	Yan	Tingting	CPVT	Ding	Shanbin
JA Solar	Wang	Zhi	CPVT	Huang	Wenhao
NAURA	Xiong	Li	Rutech	Ouyang	Jieyu

## **Table 2 Leadership Changes**

WG/TF/SC/TC Name	Previous Leader	New Leader
PV		
Cochair	Guangchun Zhang – CSI	Dengyuan Song – DASOLAR
PV Module TF	Wei Zhou – Trina Solar Zhen Zhang Hohai University Jingbing Zhu – Sunman Liang Luo – Red Solar	Wei Zhou – Trina Solar Zhen Zhang – Shanghai Jiaotong University Jingbing Zhu – Sunman Liang Luo – Red Solar
Thin Film PV Module TF	Yaohua Mai – JINAN University Xinwei Niu – JA Solar Zhen Zhang – Hohai University Zhenrui Yu – UtMost Light Ganhua Fu – CNBM	Yaohua Mai – JINAN University Xinwei Niu – JA Solar Zhen Zhang – Shanghai Jiaotong University Zhenrui Yu – UtMost Light Ganhua Fu – CNBM
PV Material	,	,
Cochair	Guangchun Zhang – CSI	Dengyuan Song – DASOLAR

## **Table 3 Committee Structure Changes**

Previous WG/TF/SC Name	New WG/TF/SC Name or Status Change
Photovoltaic	
None	
Photovoltaic Materials	
None	



#### **Table 4 Ballot Results**

Document #	Document Title	Committee Action
PV		
6700	New Standard: Test Method of Wind Uplift Resistance for Photovoltaic Modules Roof (BIPV)	Passed
6542	New Standard: Guide for Scrap Judgement of Photovoltaic Modules in Building	Passed with Technical Changes. Ratification ballot to be issued.
PV Materials		
None		

<sup>#1</sup> Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

## Table 5 Activities Approved by the GCS between meetings of the TC Chapter

		<u> </u>	
#	Туре	SC/TF/WG	Details
Photovolta	иic		
None			
Photovolta	ic Material	s	
None			

#### **Table 6 Authorized Activities**

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

#	Type	SC/TF/WG	Details
PV			
None			
PV Materi	als		
None			

<sup>#1</sup> SNARFs and TFOFs are available for review on the SEMI Web site at:

 $\underline{http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF}$ 

## **Table 7 Authorized Ballots**

#	When	TF	Details
PV			
6113	Cycle 1-23	Madula TE	New Standard: Test Method for Abrasion Resistance of the Polymer Backsheet of Crystalline Silicon Solar Modules
6872	Cycle 1-23	K'all'T'E	Revision to SEMI PV75-1016, Test Method on Cell Level for Potential-induced-degradation Susceptibility of Solar Cells and Module Encapsulation Materials
PV Mater	als		
None			

<sup>#2</sup> Failed ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.



## Table 8 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
Photovoltai	c		
None			
Photovoltai	c Materials		
None			

## Table 9 SNARF(s) Abolished

#	TF	Title
PV		
None		
PV Materia	ls	
None		

#### Table 10 Standard(s) to receive Inactive Status

Standard Designation	Title
Photovoltaic	
None	
Photovoltaic Materials	
None	

## Table 11 Table 10 Standard(s) to receive Withdrawal Status

Standard Designation	Title
PV	
None	
PV Materials	
None	

#### **Table 12 New Action Items**

Item#	Assigned to	Details	
	PV Equipment Task Force	Study and discussion of Graphite Carrier	

#### **Table 13 Previous Meeting Action Items**

Item #	Assigned to	Details
None		

## 1 Welcome, Reminders, and Introductions

Committee co-chair Dengyuan Song called the meeting to order at 13:30.



#### 2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

**Motion:** To approve the minutes of the previous meeting as written

By / 2<sup>nd</sup>: Zhixin Li (Linton)/ Dazhou Yan (SINOSICO)

**Discussion:** None

Vote: 21Y - 0 N. Total 21 companies. Motion Passed.

**Attachment**: 3 China PV&PVM TC Joint Spring Meeting Minutes 20220415-v1

#### 3 Liaison Reports

None

#### 4 SEMI Staff Report

Cassie Li (SEMI) gave the SEMI Staff Report. Of note:

#### **Action Item:**

- Standards Technical Committees
- 2022 Critical Dates for SEMI Standards Ballots
- 2023 Critical Dates for SEMI Standards Ballots
- SEMI Standards Publications
- China PV&PV Materials TC Update

Attachment: 4 SEMI Staff Report 20221104-v1

- 4.1 Other SDO (Standards Development Organization) Update
  - None

#### 5 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

5.1 Document 6700, New Standard: Test Method of Wind Uplift Resistance for Photovoltaic Modules Roof (BIPV)

**Motion:** Xinying Xue (Chint Solar) moved that this document passed TC Chapter review as balloted and will be

forwarded to the ISC A&R SC for procedural review.

By / 2<sup>nd</sup>: Xinying XUE (Chint Solar) / Zhixin LI (Linton)

**Discussion:** None

**Vote:** 21 in favor and 0 opposed. (Total 21 companies. 0 companies abstain.) Motion passed.

Attachment: Ballot Report 6700

5.2 Document 6542, New Standard: Guide for Scrap Judgement of Photovoltaic Modules in Building

Motion: Yan Bai (Hanergy) moved that this document passed TC Chapter review with technical changes and with or

without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot

will be issued to verify the technical changes.

By / 2<sup>nd</sup>: Yan BAI (Hanergy) / Zhixin LI (Linton)



**Discussion:** Weiming Li (Leadmicro): The negative is worth to consider.

Guangchun Zhang (CSI): The reason from the TF is good. The contract between both sides needs a standard.

Wei Zhou (Trina): We should consider from the using scenarios to show the value of the standard.

Yan Bai (Hanergy): Due to the using time limitation, no one can confirm whether it is safe or not if exceed the

time limitation. So we need this standard.

Vote: 21 in favor and 0 opposed. (Total 21 companies. 0 companies abstain.) Motion passed.

Attachment: Ballot Report 6542

#### 6 Subcommittee and Task Force Reports

6.1 PV Silicon Raw Materials Task Force

None

#### 7 SNARF Abolished

None

## 8 Task Force Report

8.1 Crystalline Silicon Solar Cell Task Force

Dengyuan SONG (DASOLAR) reported for the Crystalline Silicon Solar Cell Task Force. This report contained information on:

#### **Action Item:**

- Introduced the task force's leaders and members
- Introduced published standards.
- Working on
  - ▶ 6872: Revision to PV75-1016: Test Method on Cell Level for Potential-induced-degradation Susceptibility of Solar Cells and Module Encapsulation Materials(电池以及组件封装材料 PID 敏感性测试)

**Attachment:** 2 2022 年秋季会议-电池工作组汇报 PPT11.11(1)

#### 8.2 Building Integrated Photovoltaic (BIPV) Task Force

Dengyuan SONG (DASOLAR) reported for the Building Integrated Photovoltaic (BIPV) Task Force. This report contained information on:

#### **Action Item:**

- Introduced the task force's leaders and members
- Introduced published standards
- Working on
  - Doc. 6542, Guide for Scrap Judgement of Photovoltaic modules in building
  - Doc. 6700, Test Methods of Wind Uplift Resistance for Roof-Top Building Integrated Photovoltaics (BIPV)
- Work Plan for the Next Step



**Attachment:** 3 2022 年秋季会议-BIPV 工作组汇报 PPT11.11(1)

8.3 PV Module Task Force

Wei ZHOU (TrinaSolar) reported for the PV Module Task Force. This report contained information on:

#### **Action Item:**

- Introduced the task force's leaders and members
- Introduced published standards
- Working on
  - Doc 6113, Test Method for Abrasion Resistance of the Polymer Backsheet of Crystalline Silicon Solar Modules

**Attachment:** 4 SEMI PV Module TF Report 2022-11-11

8.4 PV Equipment Task Force

Buzhong Li (NAURA) reported for the PV Equipment Task Force. This report contained information on:

#### **Action Item:**

- Introduced the task force's leaders and members
- · Introduced published standards
- Document request abolished
  - Doc. 5983D, Test Method for In-line Sheet Resistance Inspection Using the Junction Photo-Voltage Method
- Work Plan for the Next Step

Attachment: 5 SEMI 中国光伏标委会设备工作组工作汇报(2022 秋季会议)-202201108(密级:不涉密)(1)

8.5 Thin Film PV Modules Task Force

Yaohua Mai ((JINAN University) reported for the Thin Film PV Modules Task Force. This report contained information on:

#### **Action Item:**

• Introduced the task force's leaders and members

**Attachment:** 6 Thin Film PV Modules TF Report Nov.12th, 2022

#### 9 Old Business

9.1 Refer to Table 12 Previous Meeting Action Items

#### 10 New Business

- 10.1 Requests for ballots in Cycle of 2023
- 9.1.1 Doc. 6113, New Standard: Test Method for Abrasion Resistance of the Polymer Backsheet of Crystalline Silicon Solar Modules

**Motion:** Approve Document 6113 for Letter Ballot in Cycle 1-23.

By / 2<sup>nd</sup>: Lianli YANG (CSI) / Zhixin LI (Linton)



**Discussion:** Jingbing Zhu (SUNLAND): The difference in sands will make the difference corrode influence in materials. Is

there any definition?

Lianli Yang (CSI): Yes, we have definitions about that.

Vote: 33 in favor and 0 opposed. (Total 33 companies. 0 companies abstain.) Motion passed.

Attachment: 7 SEMI 晶体硅太阳电池组件用聚合物背板耐磨性能测试方法 20221111

9.1.2 Doc. 6872, Revision to SEMI PV75-1016, Test Method on Cell Level for Potential-induced-degradation Susceptibility of Solar Cells and Module Encapsulation Materials

**Motion:** Approve Document 6872 for Letter Ballot in Cycle 1-23.

By / 2<sup>nd</sup>: Yutong WU (CSI) / Zhixin LI (Linton)

**Discussion:** Jingbing Zhu (SUNLAND): Is there any consideration other than Na for PID

Dengyuan Song (DASOLAR): Na is universal.

Vote: 29 in favor and 0 opposed. (Total 29 companies. 0 companies abstain.) Motion passed.

Attachment: 8 20221112 Revision to SEMI PV75-1016 -- Draft Document 6872

10.2 New SNARFs

None

10.3 Five-Year-Review

None

10.4 SNARF(s) Granted a One-Year Extension

None

## 11 Next Meeting and Adjournment

The next meeting of the PV & PV Materials China TC Chapter is TBD.

For more information, please visit Standards Calendar at http://www.semi.org/en/standards

Adjournment: 15:00

Respectfully submitted by:

Cassie Li SEMI China

Phone: 86-21-60277654

Email: cassie.li@semichina.org

Minutes tentatively approved by:



Dengyuan Song (DASOLAR), PV Committee and PV	2022.11.21
Materials Committee China TC Chapter Co-chair	

# Table 14 Index of Available Attachments<sup>#1</sup>

Title	Title
0 Chinese SEMI Standard Meeting Reminders	1 China PV Standards Committee Fall Meeting 2022 Agenda - v4
2 2022 年秋季会议-电池工作组汇报 PPT11.11(1)	3 2022 年秋季会议-BIPV 工作组汇报 PPT11.11(1)
4 SEMI PV Module TF Report 2022-11-11	5 SEMI 中国光伏标委会设备工作组工作汇报(2022 秋季会议)-202201108(密级:不涉密)(1)
6 Thin Film PV Modules TF Report Nov.12th, 2022	7 Background Statement for SEMI Draft Document 6113
7 SEMI 晶体硅太阳电池组件用聚合物背板耐磨性能 测试方法 20221111	7 组件工作组 组内投票统计(背板耐磨 20221108)
8 20221112 Revision to SEMI PV75-1016 Draft Document	8 SEMI Draft Document 6872
8 SEMI 晶体硅太阳电池工作组 组内投票统计(PID 敏感测试 20221109)	2 China PV Standards Committee Fall Meeting 2022 Agenda - Cassie 用
3 China PV&PVM TC Joint Spring Meeting Minutes 20220415-v1	4 SEMI Staff Report 20221104-v1
5 6700 tally summary	6 6542 tally summary
Ballot Report 6542	Ballot Report 6700

<sup>#1</sup> Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.