

Report Shipment Inspection of PV Modules

Report No.: xxxxxxxx Date of issue: Nov 16, 2009 Inspector: Kevin Lin Reviewer: Michael Yu

Note:

- Records filled by the inspector are shown in blue fonts; -Deviations or important data are shown in red fonts.





Report No.xxxxxxxx
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Report No.xxxxxxxx					More Tha	an Better Quali
1. GENERAL I	NFORMA	TION				
The Buyer Address	XXXXXX					
The Seller Address	XXXXX					
The Manufacturer Address	XXXXX					
Contract No.	XXX					
	Name	xxxx				
The Inspector's	Phone	XXXX				
details	Fax	XXX				
	Email	XXX				
Date of Inspection	from Nov	9 <b>, 200</b> 9	until Nov 9, 2	2009		
Participants of the	XXX			XX	(XX	
inspection	XXX			XX	XXX	
2. PRODUCT I	NFORMA	ITON				
2.1 List of the ins	pected PV	module t	ypes			
Module Type	•		<b>.</b>			
Cell Type Mor Cell Area 125 Rated Maximum Pow 230W (+/-3%) Dimension 1650mm×992mm×40 Maximum System Vo 1000VDC 2.2 Quantity of the Actual Quantity:	no-crystalline mm×125mn /er Smm Itage	☑ Poly-o n ☑ 156m          d PV moc         230 Wp,	crystalline 🗌 A um×156mm Iules 1,520 Pcs,	morphous	3 Containers	
Container No. 1, 2, 3						
2.3 Manufacturin	g Period of	the inspe	ected PV mod	lules		
Manufacturing Period	: from Nov	., 2009	until N	ov., 2009		
Product Serial Number	er: 3091103X	XXX				
Remark of the Serial	Number				SolarQi Kevin Li	076



## 3. COMPONENTS AND MATERIALS FOR THE PRODUCTION

As agreed by the buyer and the seller, only the components and materials listed in the contract will be used for the modules production. In this section the conformity of the module production with the listed components and materials will be verified by means of random sampling of work slips, inventory records, and delivery notes during the past period. The listed components and materials in the contract are shown in the APPENDIX I.

3.1 Solar cell(s)								
Type/Speci	fication		Supplier					
NY YYY		Producer	XXXX					
****		Agent	ххх					
Delivery Notes	xxxx	-						
Work Slips	xxxx							
Inventory Records	xxxx							
3.2 Front Cover								
Type/Speci	fication		Supplier					
xxxx		Producer	хххх					
		Agent	хххх					
Delivery Notes	xxx							
Work Slips	ххх							
Inventory Records	xxxx							
Remark	xxxxx							
3.3 Backside Co	over							
Type/Speci	fication		Supplier					
xxxx		Producer	хххх					
		Agent	ххх					
Delivery Notes	xxx							
Work Slips	Sxxx							
Inventory Records	хххх							
Remark	xxxx							
3.4 Cell Encaps	ulation	_						
Type/Speci	fication		Supplier					
XXXX		Producer	XXXX					
		Agent	ххх					
Delivery Notes	хххх							
Work Slips	xxxx							
Inventory Records	хххх							
Remark	xxxx							



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3.5 Frame			
Type/Speci	fication		Supplier
xxxx		Producer	xxxx
		Agent	xxx
Delivery Notes	ххх		
Work Slips	ххх		
Inventory Records	xxxx		
3.6 Cell and Stri	ing Connectors		
Type/Speci	fication		Supplier
N/A		Producer	XXXX
		Agent	XXXX
Delivery Notes	ххх		
Work Slips	ххх		
Inventory Records	ххх		
3.7 Soldering M	aterials (Welding	g Flux)	
Type/Speci	fication		Supplier
хххх		Producer	XXX
		Agent	xxx
Delivery Notes	XXX		
Work Slips	xxx		
Inventory Records	xxx		
3.8 Electrical Co	onnection Comp	onents	
Type/Speci	fication		Supplier
Junction Boxesxxxxxx	x	Producer	Junction Boxes and Cables:
Connectors xxxxxxxx	ĸx		XXXXXXXXXX
Cables xxxxxxxxxxx			Connectors:
Bypass Diodes XXXXX	xxx		XXXXXXXXX
XXXXXXXX			Bypass Diodes,
			XXXXXXXX
Delivery Notes	XXXXXXX		
Work Slips	XXXXXXX		
Inventory Records	XXXXXXXXX		
Remark	XXXXXXXXX		
3.9 Sealing Com	npound		
Sealing compound is us	sed for edge sealing	g of the mo	dule, adhesive and sealing the junction box.
Type/Speci	fication		Supplier
XXXXXX		Producer	XXXXXXXX



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		Agent	XXXXXXX
Delivery Notes	ххх		
Work Slips	ххх		
Inventory Records	ххх		
Remarks:			

xxxxxx

4. OUTPUT POWER MEASUREMENT

It must be assured that a precise output power report of the modules will be provided by the seller before every shipment. In this section, some samples will be extracted from the batch randomly, and these samples will be tested under the benchmark set by the standard module. The inspector will compare the output power report provided by the seller with the test result of the samples to check any deviation.

S/N of the standard module

XXXXXXXXXX

Standard module Power (I-V curve):

XXXXXXX

Simulator (Model)

XXXXXXX

**Sampling Principle** 

5% sampling.

**Standard Test Conditions:** 

1000W/m<sup>2</sup>, 25℃





No.	S/N	Pm(W)	FF	Voc (V)	lsc (V)	Vm (A)	lm (A)	Acutal Temp (°C)	Corrected to Temp(℃)	Original Power(Wp)	Power Tolerance (Wp)
#	XXXXXX	227.15	74.8%	36.74	8.27	29.32	7.75	26.0	25.0	N/A	N/A
1	XXXXXXXXXXX	229.27	74.8%	36.85	8.31	29.12	7.87	24.89	25.0	231.63	-2.36
2	XXXXXXXXXXX	230.99	74.6%	36.97	8.37	29.34	7.87	24.58	25.0	233.40	-2.41
3	XXXXXXXXXXX	230.22	75.3%	36.86	8.29	29.40	7.83	24.46	25.0	232.72	-2.50
4	XXXXXXXXXXX	231.22	75.0%	37.00	8.34	29.41	7.86	24.36	25.0	233.45	-2.23
5	XXXXXXXXXXX	230.59	74.3%	36.93	8.40	29.12	7.92	24.35	25.0	233.18	-2.59
6	XXXXXXXXXXX	229.04	74.9%	36.86	8.30	29.34	7.81	24.38	25.0	231.68	-2.64
7	XXXXXXXXXXX	225.78	74.7%	36.67	8.24	29.01	7.78	24.87	25.0	228.58	-2.80
8	XXXXXXXXXXX	226.30	75.1%	36.71	8.20	29.34	7.71	24.45	25.0	229.31	-3.01
9	XXXXXXXXXXX	225.83	73.9%	36.82	8.30	28.85	7.83	24.27	25.0	229.09	-3.26
10	XXXXXXXXXXX	225.97	74.4%	36.69	8.28	28.94	7.81	24.08	25.0	228.12	-2.15
11	XXXXXXXXXXX	227.28	74.9%	36.79	8.25	29.24	7.77	24.12	25.0	229.49	-2.21
12	XXXXXXXXXXX	225.50	74.5%	36.69	8.25	28.87	7.81	24.03	25.0	227.73	-2.23
13	XXXXXXXXXXX	225.67	74.7%	36.66	8.24	28.91	7.81	24.13	25.0	227.77	-2.10
14	XXXXXXXXXXX	228.23	75.0%	36.90	8.24	29.31	7.79	24.02	25.0	229.04	-0.81
15	XXXXXXXXXXX	228.35	75.2%	36.76	8.26	29.21	7.82	24.13	25.0	229.00	-0.65
16	XXXXXXXXXXX	228.76	75.2%	36.80	8.27	29.21	7.83	24.04	25.0	229.58	-0.82
17	XXXXXXXXXXX	228.56	74.9%	36.65	8.33	28.98	7.89	24.96	25.0	231.40	-2.84
18	XXXXXXXXXXX	227.42	74.7%	36.80	8.28	29.04	7.83	24.79	25.0	229.63	-2.21
19	XXXXXXXXXXXX	228.85	74.9%	36.88	8.28	29.22	7.83	24.66	25.0	230.92	-2.07
20	XXXXXXXXXXX	226.95	74.8%	36.75	8.26	29.16	7.78	24.60	25.0	228.57	-1.62
21	XXXXXXXXXXX	226.97	74.6%	36.72	8.29	28.96	7.84	24.69	25.0	228.20	-1.23
22	XXXXXXXXXXX	227.18	75.1%	36.75	8.23	29.13	7.80	24.60	25.0	228.37	-1.19
23	XXXXXXXXXXX	227.06	75.0%	36.67	8.26	29.19	7.78	24.55	25.0	229.96	-2.90
24	XXXXXXXXXXX	227.33	74.7%	36.77	8.27	29.09	7.81	24.54	25.0	228.96	-1.63
25	XXXXXXXXXXX	228.87	75.0%	36.93	8.27	29.52	7.75	24.54	25.0	230.35	-1.48
26	XXXXXXXXXXX	229.50	74.1%	36.83	8.41	28.95	7.93	24.60	25.0	230.95	-1.45
	Container 1						Av	erage tolerance	(W/Module)		-2.05

 Table 1
 Maximum power of tested modules(Container 1)





No.	S/N	Pm(W)	FF	Voc (V)	lsc (V)	Vm (A)	lm (A)	Acutal Temp (℃)	Corrected to Temp(℃)	Original Power(Wp)	Power Tolerance (Wp)
27	XXXXXXXXXXX	227.48	74.2%	36.68	8.36	29.07	7.83	24.3	25.0	229.9	-2.42
28	XXXXXXXXXXX	229.39	74.7%	36.93	8.31	29.35	7.81	24.2	25.0	231.41	-2.03
29	XXXXXXXXXXX	228.62	74.1%	36.84	8.38	28.99	7.89	24.3	25.0	230.56	-1.94
30	XXXXXXXXXXX	230.12	75.1%	36.9	8.3	29.28	7.86	24.1	25.0	231.05	-0.92
31	XXXXXXXXXXX	229.54	74.6%	36.88	8.34	29.15	7.88	24.2	25.0	230.27	-0.73
32	XXXXXXXXXXX	228.67	75.3%	36.73	8.27	29.15	7.84	24.1	25.0	229.93	-1.25
33	XXXXXXXXXXX	230.43	75.1%	36.92	8.31	29.31	7.86	24.2	25.0	231.43	-1.01
34	XXXXXXXXXXX	230.98	75.1%	37	8.31	29.27	7.89	24.1	25.0	231.8	-0.81
35	XXXXXXXXXXX	230.47	75.0%	36.99	8.31	29.63	7.78	24.3	25.0	233.11	-2.64
36	XXXXXXXXXXX	229.76	75.2%	36.93	8.28	29.33	7.83	24.0	25.0	232.08	-2.32
37	XXXXXXXXXXX	228.75	74.8%	36.83	8.3	29.22	7.83	24.1	25.0	231.74	-2.99
38	XXXXXXXXXXX	229.63	74.9%	36.98	8.29	29.32	7.83	24.0	25.0	232.78	-3.15
39	XXXXXXXXXXX	228.74	75.2%	36.88	8.25	29.34	7.79	24.1	25.0	231.55	-2.81
40	XXXXXXXXXXX	229.82	75.1%	36.81	8.31	29.32	7.84	24.0	25.0	232.48	-2.67
41	XXXXXXXXXXX	230.84	74.4%	37.07	8.37	29.33	7.87	24.1	25.0	233.31	-2.46
42	XXXXXXXXXXX	228.51	75.2%	36.81	8.26	29.31	7.8	24.0	25.0	232.02	-3.51
43	XXXXXXXXXXX	227.9	74.7%	36.91	8.27	29.33	7.77	24.6	25.0	230.39	-2.49
44	XXXXXXXXXXX	227.56	73.9%	36.79	8.37	29.23	7.79	24.6	25.0	231.15	-3.59
45	XXXXXXXXXXX	228.29	74.6%	36.76	8.32	29.03	7.86	24.6	25.0	230.46	-2.17
46	XXXXXXXXXXX	228.33	74.8%	36.83	8.29	29.43	7.76	24.7	25.0	230.66	-2.33
47	XXXXXXXXXXX	228.4	74.7%	36.83	8.3	29.3	7.8	24.7	25.0	230.94	-2.54
48	XXXXXXXXXXX	230.99	74.6%	37.09	8.35	29.42	7.85	24.6	25.0	232.96	-1.96
49	XXXXXXXXXXXX	227.14	74.7%	36.78	8.27	29.3	7.75	24.6	25.0	230.31	-3.17
50	XXXXXXXXXXX	229.51	74.5%	36.93	8.35	29.39	7.81	24.6	25.0	232.56	-3.05
51	XXXXXXXXXXX	226.75	74.5%	36.74	8.28	29.26	7.75	24.5	25.0	231.47	-4.72
52	XXXXXXXXXXX	226.5	74.8%	36.87	8.22	29.28	7.74	24.4	25.0	232.77	-6.27
	Container 2						Av	erage tolerance	(W/Module)	-2.	54

 Table 2
 Maximum power of tested modules(Container 2)





No.	S/N	Pm(W)	FF	Voc (V)	lsc (V)	Vm (A)	lm (A)	Acutal Temp (℃)	Corrected to Temp(℃)	Original Power(Wp)	Power Tolerance (Wp)
53	XXXXXXXXXXX	226.58	74.2%	36.80	8.29	29.11	7.78	24.7	25.0	229.04	-2.46
54	XXXXXXXXXXX	225.86	74.4%	36.73	8.27	29.15	7.75	24.2	25.0	227.73	-1.87
55	XXXXXXXXXXX	227.49	75.0%	36.77	8.25	29.18	7.80	24.1	25.0	228.74	-1.25
56	XXXXXXXXXXX	229.03	75.3%	36.89	8.24	29.29	7.82	24.2	25.0	228.78	0.24
57	XXXXXXXXXXX	229.40	75.0%	36.71	8.34	29.18	7.86	24.1	25.0	231.79	-2.40
58	XXXXXXXXXXX	226.37	74.0%	36.92	8.29	29.28	7.73	24.0	25.0	229.86	-3.49
59	XXXXXXXXXXX	228.32	74.8%	36.71	8.32	29.22	7.82	24.0	25.0	231.08	-2.76
60	XXXXXXXXXXX	228.36	75.3%	36.58	8.29	29.05	7.86	24.1	25.0	231.93	-3.57
61	XXXXXXXXXXX	228.16	75.1%	36.72	8.27	29.28	7.79	24.0	25.0	230.02	-1.86
62	XXXXXXXXXXX	227.64	75.4%	36.79	8.21	29.32	7.76	24.1	25.0	230.02	-2.38
63	XXXXXXXXXXX	228.26	74.5%	36.75	8.34	29.12	7.84	24.1	25.0	230.47	-2.21
64	XXXXXXXXXXX	227.20	74.4%	36.77	8.30	29.21	7.78	24.2	25.0	229.62	-2.42
65	XXXXXXXXXXX	230.66	75.0%	36.98	8.32	29.41	7.84	24.3	25.0	232.98	-2.33
66	XXXXXXXXXXX	228.94	74.8%	36.80	8.32	29.26	7.83	24.3	25.0	232.89	-3.95
67	XXXXXXXXXXX	228.85	75.4%	36.79	8.25	29.49	7.76	24.3	25.0	232.05	-3.20
68	XXXXXXXXXXX	228.96	74.9%	36.81	8.30	29.34	7.80	24.3	25.0	232.39	-3.42
69	XXXXXXXXXXX	229.43	75.1%	36.89	8.28	29.38	7.81	24.3	25.0	232.49	-3.06
70	XXXXXXXXXXX	228.54	75.1%	36.85	8.26	29.14	7.84	24.4	25.0	231.75	-3.21
71	XXXXXXXXXXX	228.24	74.7%	36.89	8.29	29.37	7.77	24.3	25.0	231.80	-3.56
72	XXXXXXXXXXX	228.19	74.8%	36.77	8.30	29.18	7.82	24.5	25.0	231.96	-3.77
73	XXXXXXXXXXX	227.94	75.1%	36.74	8.27	29.16	7.82	24.3	25.0	231.78	-3.84
74	XXXXXXXXXXXX	229.67	74.8%	36.81	8.34	29.37	7.82	24.2	25.0	233.12	-3.46
75	XXXXXXXXXXXX	228.50	75.0%	36.81	8.28	29.34	7.79	24.1	25.0	232.12	-3.62
#	XXXXXXX	227.83	74.8%	36.76	8.29	29.01	7.85	24.9	25.0	N/A	N/A
	Container 3						Av	erage tolerance	(W/Module)	-2.	78

 Table 3
 Maximum power of tested modules(Container 3)



#### **Remark:**

(I-V curved removed)

Fig. 1 I-V Curve of the standard module before test

Fig. 2 I-V Curve of the standard module after test

(I-V curved removed)

#### **Remark:**

- 1. All the modules (including the standard module & the samples) were tested in the temperature ranging from 24°C to 26°C, and all the test results were corrected to 25°C by the sun simulator automatically.
- 2. Power tolerance=Pm(test result in inspection)-Original Power(from the flash report provided by XXXXX).
- 3. From Table 1(Container 1), the Average Power Tolerance is **-2.05W/Module**, so the final average output power of container 1 is 230.13-2.05=228.08W/Module, which is in the range of 230±3%W, so it's acceptable.
- 4. From Table 2(Container 2), the Average Power Tolerance is **-2.54W/Module**, so the final average output power of container 1 is 230.68-2.54=228.14W/Module, which is in the range of 230±3%W, so it's acceptable.
- 5. From Table 3(Container 3), the Average Power Tolerance is **-2.78W/Module**, so the final average output power of container 1 is 230.53-2.78=227.75W/Module, which is in the range of 230±3%W, so it's acceptable.
- 6. The average power of the modules for this shipment was confirmed by the manufacturer (See APPENDIX VI).
- 7. Before and after the inspection, the inspectors checked XXXXX's standard module and SolarQC's standard module, as below:
- XXXXX uses 30905230009 as standard module in the daily production, and 30905230009 was copied from the standard module 20808140005. The inspector checked 20808140005, 30905230009 and HRKJ20090507538(provided by SolarQC), see Table 1. It shows, HRKJ20090507538 is about 4W stricter than 20808140005, and 20808140005 is about 4W stricter than 30905230009. It also shows 30905230009 didn't work well and needs recalibration.





## 5. VISUAL INSPECTION

Within quality control the manufacturer is obliged to deliver no defective module in the shipment. In the visual inspection, the Inspector will check the samples with the aim to identify existing faults, which are shown as the follows,

- a. Broken, cracked or cells ;
- b. Chipped cell with area more than 1\*2mm (Any chip through the bottom is not allowed);
- c. More than 1 scratch or pollution on cell surface for a diameter or length more than 5mm;
- d. Cells touching one another or the frame;
- e. Distance between cells less than 1.0mm;
- f. Cracked, bent, misaligned or torn external surfaces;
- g. Any scratch in the back sheet
- h. The depth of the cockle in the back sheet more than 0.3mm;
- *i.* Any cockle in the back sheet with a diameter or length more than 10mm;
- j. More than 4 cockles with a diameter or length more than 5mm;
- *k.* Any scratch in the glass surface with length more than 10mm; Or more than 4 scratches in the glass surface;
- I. Any bubble with a diameter or length more than 1.0 mm; Or Bubbles more than 1 piece;
- m. Any dust with a diameter or length more than 3.0 mm; Or dusts more than 4 pieces;
- n. Faulty interconnections or joints;
- o. Female and male connectors cannot be automatically locked, or can be loosened by pulling with hand;
- p. Failure of adhesive bonds;
- q. Bus bar ribbon has copper coating exposing;
- r. The distance between Bus bar ribbon and frame is less than 8mm;
- s. Tacky surfaces in the plastic materials;
- t. Sharp corner of frame which may cause injury;
- u. Active electrical areas are not covered;
- v. Damaged or unclear serial number or label;
- w. Any other defect that could affect the normal behaviour of the module.

No.	S/N		Container No.	
1	XXXXXXXXXXX	PASS	2 tin points on the cells, L=2mm	3
2	XXXXXXXXXXX	PASS	OK	3
3	XXXXXXXXXXX	PASS	OK	3
4	XXXXXXXXXXX	PASS	1 tin point on the cells, L=1mm	3
5	XXXXXXXXXXX	PASS	2 tin points on the cells, L=1mm	3
6	XXXXXXXXXXX	PASS	OK	3
7	XXXXXXXXXXX	PASS	4 pcs of impurity, L=1mm. 1 tin point on the cells, L=1mm	3
8	XXXXXXXXXXX	PASS	OK	3
9	XXXXXXXXXXX	PASS	OK	3
10	XXXXXXXXXXX	PASS	1 pcs of impurity, L=1mm	3
11	XXXXXXXXXXX	PASS	OK	3
12	XXXXXXXXXXX	PASS	4 tin points on the cells, L=2mm	3
13	XXXXXXXXXXX	PASS	One tiny dent in the back sheet (10*5mm)	3
14	XXXXXXXXXXX	PASS	OK	3
15	XXXXXXXXXXX	PASS	Unclean glass surface	3
16	XXXXXXXXXXX	PASS	OK	3
17	XXXXXXXXXXX	PASS	OK	3
18	XXXXXXXXXXX	PASS	OK	3
19	XXXXXXXXXXX	PASS	6 tin points on the cells, L<2mm	3
20	XXXXXXXXXXX	PASS	OK	3
21	XXXXXXXXXXX	PASS	OK	3
22	XXXXXXXXXXX	PASS	OK	3
23	XXXXXXXXXXX	PASS	OK	3
24	XXXXXXXXXXX	PASS	2 tin points on the cells, L=2mm. Unclean glass surface	3
25	XXXXXXXXXXX	PASS	One tiny dent in the back sheet (10*5mm) 2 tin points on the cells, L=2mm	2





No.	S/N		Container No.	
26	XXXXXXXXXX	PASS	OK	2
27	XXXXXXXXXXX	PASS	2 tin points on the cells, L=2.5mm	2
28	XXXXXXXXXXX	PASS	One tiny dent in the back sheet (D=5mm)	2
29	XXXXXXXXXXX	PASS	OK	2
30	XXXXXXXXXXX	PASS	OK	2
31	XXXXXXXXXXX	PASS	OK	2
32	XXXXXXXXXXX	PASS	OK	2
33	XXXXXXXXXXX	PASS	OK	2
34	XXXXXXXXXXX	PASS	ОК	2
35	XXXXXXXXXXX	PASS	Unclean glass surface	2
36	XXXXXXXXXXX	PASS	OK	2
37	XXXXXXXXXXX	PASS	OK	2
38	XXXXXXXXXXX	PASS	Unclean glass surface	2
39	XXXXXXXXXXX	PASS	OK	2
40	XXXXXXXXXXX	PASS	OK	2
41	XXXXXXXXXXX	PASS	1 tin point on the cells, L=1mm	1
42	XXXXXXXXXXX	PASS	Unclean glass surface	1
43	XXXXXXXXXXX	Rejected	2 Tin points, L=5mm, replaced by 30911030578	1
44	XXXXXXXXXXX	PASS	OK	1
45	XXXXXXXXXXX	PASS	1 tin point on the cells, L=1mm	1
46	XXXXXXXXXXX	PASS	1 tin point on the cells, L=1mm	1
47	XXXXXXXXXXX	PASS	2 tin points on the cells, L=1mm	2
48	XXXXXXXXXXX	PASS	1 tin point on the cells, L=2mm	2
49	XXXXXXXXXXX	PASS	UK 4 tip point on the celle 1, 4 mm	2
50	XXXXXXXXXXX	PASS	I tin point on the cells, L=1mm	2
51	XXXXXXXXXXX	PASS	OK OK	2
52		PASS	1 tip point on the colls. I –1mm	2
54		PASS	1 tin point on the cells, L=1mm	2
55	××××××××××××××××××××××××××××××××××××××	PASS		2
56		PASS	OK	2
57	****	PASS	OK	1
58	xxxxxxxxxx	PASS	OK	1
59	xxxxxxxxxx	PASS	1 pcs of impurity. L=1mm	1
60	XXXXXXXXXX	PASS	OK	1
61	XXXXXXXXXXX	PASS	OK	1
62	XXXXXXXXXXX	PASS	OK	1
62	XXXXXXXXXXX	DASS	1 tin point on the cells, L=1mm,	1
03		PASS	Unclean glass surface	I
64	XXXXXXXXXXX	PASS	OK	1
65	XXXXXXXXXXX	PASS	ОК	1
66	XXXXXXXXXXX	PASS	ОК	1
67	XXXXXXXXXXX	PASS	OK	1
68	XXXXXXXXXXX	PASS	OK	1
69	XXXXXXXXXXX	PASS	OK	1
70	XXXXXXXXXXX	PASS	OK	1
/1	XXXXXXXXXXX	PASS	UK OK	1
72	XXXXXXXXXXX	PASS	UK OK	1
73	XXXXXXXXXXXX	PASS		1
/4 75	XXXXXXXXXXX	PASS	Unclean glass sufface	1
15	XXXXXXXXXXX	PASS		1
70		DAGG		1
78		PASS		1
79	XXXXXXXXXXX	PASS	OK	1





No.	S/N		Container No.	
80	XXXXXXXXXXX	Rejected	The materials used were differrent. Replaced by 30911031014.	2
81	XXXXXXXXXXX	PASS	OK	1
82	XXXXXXXXXXX	PASS	OK	1
83	XXXXXXXXXXX	PASS	OK	1
84	XXXXXXXXXXX	PASS	1 tin point on the cell, L<1mm	1
85	XXXXXXXXXXX	PASS	OK	1
86	XXXXXXXXXXX	PASS	OK	1
87	XXXXXXXXXXX	PASS	OK	1
88	XXXXXXXXXXX	PASS	OK	1
89	XXXXXXXXXXX	PASS	OK	1
90	XXXXXXXXXXX	PASS	OK	1
91	XXXXXXXXXXX	PASS	2 tin points on the cells, L<1mm	1
92	XXXXXXXXXXX	PASS	OK	1
93	XXXXXXXXXXX	PASS	1 pcs of impurity in the EVA,L<2mm	1
94	XXXXXXXXXXX	PASS	OK	1
95	XXXXXXXXXXX	PASS	unclean back sheet	1
96	XXXXXXXXXXX	PASS	OK	1
97	XXXXXXXXXXX	PASS	OK	1
98	XXXXXXXXXXXX	PASS	1 tin point on the cell,L<1mm	1
99	XXXXXXXXXXX	PASS	OK	1
100	XXXXXXXXXXX	PASS	UK	1
101	XXXXXXXXXXX	PASS	OK	1
102	XXXXXXXXXXX	PASS	Unclean back sheet	1
103	XXXXXXXXXXX	PASS		1
104	XXXXXXXXXXX	PASS		1
105	XXXXXXXXXXX	PASS		1
106	XXXXXXXXXXX	PASS	Tip points L 2mm	1
107	XXXXXXXXXXX	PASS	1 tip points, L<211111	1
100		PASS		1
110		PASS DASS	2 tin points on the cell 1 <2mm	1
111		PASS		2
112		PASS	OK	2
112		PASS	OK	2
114		PASS	OK	2
114		PASS	OK	2
116		Paiostad	1 tip point 1-5mm replaced by 20011021122	2
117	××××××××××××××××××××××××××××××××××××××			2
118		PASS	OK	2
110		PASS	OK	2
120		PASS	OK	2
120		PASS	1 ps of impurity in the EVA L<2mm	2
122		PASS		2
123	****	PASS	OK	2
124	XXXXXXXXXXX	PASS	2 tin points, one point L<3mm and another point L<2mm	2
125	xxxxxxxxx	PASS	OK	2
126	XXXXXXXXXXX	PASS	unclean back sheet	2
127	XXXXXXXXXXX	PASS	OK	2
128	XXXXXXXXXXX	PASS	OK	2
129	xxxxxxxxxx	PASS	1 tin point, L<3mm	2
130	XXXXXXXXXXX	PASS	OK	2
131	XXXXXXXXXXX	PASS	OK	1
132	XXXXXXXXXXX	PASS	OK	1





No.	S/N	Visual Inspection		Container No.
133	XXXXXXXXXXX	PASS	OK	1
134	XXXXXXXXXXX	PASS	OK	1
135	XXXXXXXXXXX	PASS	1 tin point, L<1mm	1
136	XXXXXXXXXXX	PASS	OK	1
137	XXXXXXXXXXX	PASS	1 pc of impurity in the EVA,L<2mm	1
138	XXXXXXXXXXX	PASS	OK	1
139	XXXXXXXXXXX	PASS	OK	1
140	XXXXXXXXXXX	PASS	OK	1
141	XXXXXXXXXX	PASS	OK	1
142	XXXXXXXXXX	PASS	OK	1
143	XXXXXXXXXX	PASS	OK	1
144	XXXXXXXXXXX	PASS	1 tin point,L<3mm	3
145	XXXXXXXXXXX	PASS	1 pcs of impurity in the EVA,L<2mm	3
146	XXXXXXXXXXX	PASS	1 tin point,L<2mm	3
147	XXXXXXXXXXX	PASS	OK	3
148	XXXXXXXXXXX	PASS	OK	3
149	XXXXXXXXXXX	PASS	OK	3
150	XXXXXXXXXXX	PASS	OK	3
151	XXXXXXXXXXX	PASS	OK	3
152	XXXXXXXXXXX	PASS	OK	3
153	XXXXXXXXXXX	PASS	OK	3
154	XXXXXXXXXXX	PASS	OK	3
155	XXXXXXXXXXX	PASS	OK	3
156	XXXXXXXXXXX	PASS		3
157	XXXXXXXXXXX	PASS		3
158	XXXXXXXXXXX	PASS		3
159		PASS	1 tin point L <2mm	ు స
161		PASS		3
162		PASS	OK	3
163		PASS	OK	3
164	XXXXXXXXXXXXX	PASS	OK	3
165	XXXXXXXXXXX	PASS	OK	3
166	XXXXXXXXXXX	PASS	OK	3
167	XXXXXXXXXXX	PASS	OK	3
168	XXXXXXXXXXX	PASS	OK	1
169	XXXXXXXXXXX	PASS	OK	1
170	XXXXXXXXXXX	PASS	OK	1
171	XXXXXXXXXXX	PASS	OK	1
172	XXXXXXXXXXX	PASS	OK	1
173	XXXXXXXXXXX	PASS	OK	1
174	XXXXXXXXXXX	PASS	OK	1
175	XXXXXXXXXXX	PASS	OK	1
176	XXXXXXXXXXX	PASS	1 tin point, L<1mm	1
177	XXXXXXXXXXX	PASS	1 pc of impurity in the EVA, L<1mm	1
178	XXXXXXXXXXX	PASS	1 tin point, L<2mm	1
179	XXXXXXXXXXX	PASS	OK	1
180	XXXXXXXXXXX	PASS	OK	1
181	XXXXXXXXXXX	PASS	OK	1
182	XXXXXXXXXXX	PASS	OK	1
183	XXXXXXXXXXX	PASS	UK OK	1
184	XXXXXXXXXXX	PASS		1
100	XXXXXXXXXXX	TASS DASC		
100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PASS	UN 1 tin point 1 -2mm	1





No.	S/N	Visual Inspection		Container No.
188	XXXXXXXXXXX	PASS	OK	1
189	XXXXXXXXXXX	PASS	OK	1
190	XXXXXXXXXXX	PASS	1 tin point, L<2mm	1
191	XXXXXXXXXXX	PASS	1 tin point, L<1mm	1
192	XXXXXXXXXXX	PASS	OK	2
193	XXXXXXXXXXX	PASS	1 pcs of impurity in EVA, L<3mm	2
194	XXXXXXXXXXX	PASS	1 tin point, L<1mm	2
195	XXXXXXXXXXX	PASS	OK	2
196	XXXXXXXXXXX	PASS	OK	2
197	XXXXXXXXXXX	PASS	OK	2
198	XXXXXXXXXXX	PASS	OK	2
199	XXXXXXXXXXX	PASS	1 pcs of impurity in EVA, L<2mm	2
200	XXXXXXXXXXX	PASS	OK	2
201	XXXXXXXXXXX	PASS	OK	2
202	XXXXXXXXXXX	PASS	OK	2
203	XXXXXXXXXXX	PASS	OK	2
204	XXXXXXXXXXX	PASS	OK	2
205	XXXXXXXXXXX	PASS	1 pcs of impurity in EVA, L<2mm. 2 tin points,	2
000		DAGO	L<1mm	
206	XXXXXXXXXXX	PASS	1 tin point, L<1mm	2
207	XXXXXXXXXXX	PASS		2
208	XXXXXXXXXXX	PASS		2
209	XXXXXXXXXXX	PASS	1 pcs of impurity in EVA, L<2mm	2
210	XXXXXXXXXXXX	PASS		2
211		PASS	OK	2
212		PASS	1 tin point L <1mm	2
213		PASS		2
214	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PASS	OK	2
216		PASS	OK	1
217		PASS	OK	1
218	XXXXXXXXXXX	PASS	OK	1
219	XXXXXXXXXXX	PASS	OK	1
220	XXXXXXXXXXX	PASS	1 tin point. L<2mm	1
221	XXXXXXXXXXX	PASS	1 tin point. L<2mm	1
222	XXXXXXXXXXX	PASS	2 tin points, L<2mm	1
223	XXXXXXXXXXX	PASS	OK	1
224	XXXXXXXXXXX	PASS	OK	1
225	XXXXXXXXXXX	PASS	OK	1
226	XXXXXXXXXXX	PASS	1 tin point, L<2mm	1
227	xxxxxxxxxx	PASS	OK	1
228	XXXXXXXXXXX	PASS	OK	1
229	XXXXXXXXXXX	PASS	OK	1
230	XXXXXXXXXXX	PASS	OK	1
231	XXXXXXXXXXX	PASS	OK	1
232	XXXXXXXXXXX	PASS	OK	1
233	XXXXXXXXXXX	PASS	OK	1
234	XXXXXXXXXXX	Rejected	serious nick in Al. Frame, replaced by 30911030474.	1
235	xxxxxxxxxx	PASS	1 tin point, L<1mm	1
236	XXXXXXXXXX	PASS	OK	1
237	XXXXXXXXXX	PASS	1 tin point, L<2mm	1
238	XXXXXXXXXX	PASS	OK	1
239	XXXXXXXXXXX	PASS	OK	1
240	XXXXXXXXXX	PASS	OK	1





No.	S/N		Container No.	
241	XXXXXXXXXXX	PASS	OK	1
242	XXXXXXXXXXX	PASS	OK	1
243	XXXXXXXXXXX	PASS	OK	1
244	XXXXXXXXXXX	PASS	1 tin point, L<1mm	1
245	XXXXXXXXXX	PASS	OK	1
246	XXXXXXXXXXX	Rejected	2 tin points, one point>4mm and another point<3mm, replaced by 30911030793.	1
247	XXXXXXXXXXX	PASS	OK	1
248	XXXXXXXXXXX	PASS	OK	1
249	XXXXXXXXXX	PASS	OK	1
250	XXXXXXXXXXX	PASS	OK	1

Table 4 Visual Inspection

#### **Remark:**

(Remarks removed)





## 6. LABELS AND PACKAGING

In this section, packing the modules to the container will be controlled to ensure the security against fracture and Seaworthy package. The label of the PV modules and the marking on the package will be checked with aiming to the correct identification of the PV modules.

#### 6.1 Label

Label removed

6.2 Packaging

Packaging photos removed



## 6.3 Container Loading

**Container 1** 

(Photos removed)

**Container 2** 

(Photos revmoved)

**Container 3** 

(Photos removed)





# 7. REMARKS FROM THE INSPECTOR

**Deviations found and comments** 

• Materials

• Output Power Measurement

#### • Visual inspection

xxxxx

### **Corrective measures and recommendations**

**Mateirals** 

XXXXX

Output power confirmation

XXXXXX

### Visual Inspection

xxxxx





# **APPENDIX I (Material List)**

(Material list removed)





# **APPENDIX II (Calibration Reports of Standard modules)**

### (Calibration reports removed)





## **APPENDIX IV**

# Specification of the Bypass Diodes

(Specification of bypass diodes removed)





APPENDIX V Output Power Confirmation of the Shipment

(Signed Datasheet of Output Power Confirmation Sheet Removed) -End of the Report-

