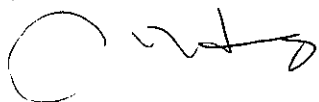



Photovoltaic Module Test Report

Report Reference No.....:	130801304SHA-001
Compiled by (+signature)	Michael Huang 
Approved by (+signature)	Zane Guo 
Date of Issue	September 2, 2013
Total number of pages	5
Testing Laboratory.....:	Intertek Testing Services Shanghai
Address.....:	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Testing location.....:	1-2F, No. 2, Alley 1218, Wan Rong Road, Shanghai, China
Applicant's name	Racworth Co.,Ltd.
Address.....:	Room 302, Building 2, No.2966 Jinke Road, Pudong, Shanghai, China
Test specification.....:	Testing
Standard.....:	UL 2703 Issue Number: 1 (Clauses 13)
Test Item description.....:	Tray-Flat Mounting System
Model/Type reference.....:	-
Brand name.....:	Racworth
Manufacturer.....:	Haiyan Boying Metal Products Co.,Ltd.
Address.....:	Shendang Industry Zone, Haiyan, Zhejiang
Rating.....:	Snow load: 0,45kN/m ² , Wind load: 0,75kN/m ²
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Product Rating:	
Maximum size of PV modules intended to be installed:	1650mmx990mmx50mm
Maximum number of PV modules intended to be installed:	2
Constructed material of mounting system:	Aluminum alloy
Max. series fuse of PV modules intended to be installed:	20A

Summary of testing:	
Tests performed (name of test and test clause)	
Tests	Clause
Bonding Path Resistance Test	UL 2703 Issue Number: 1 (Clauses 13)

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)

Testing:	
Date of receipt of test item	: Aug 22, 2013
Date (s) of performance of tests	: From Aug 23, 2013 to Aug 29, 2013

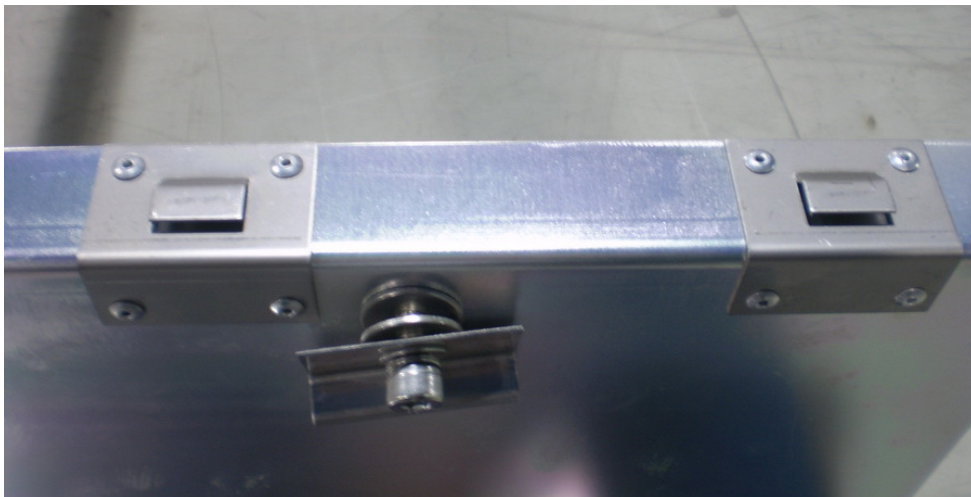
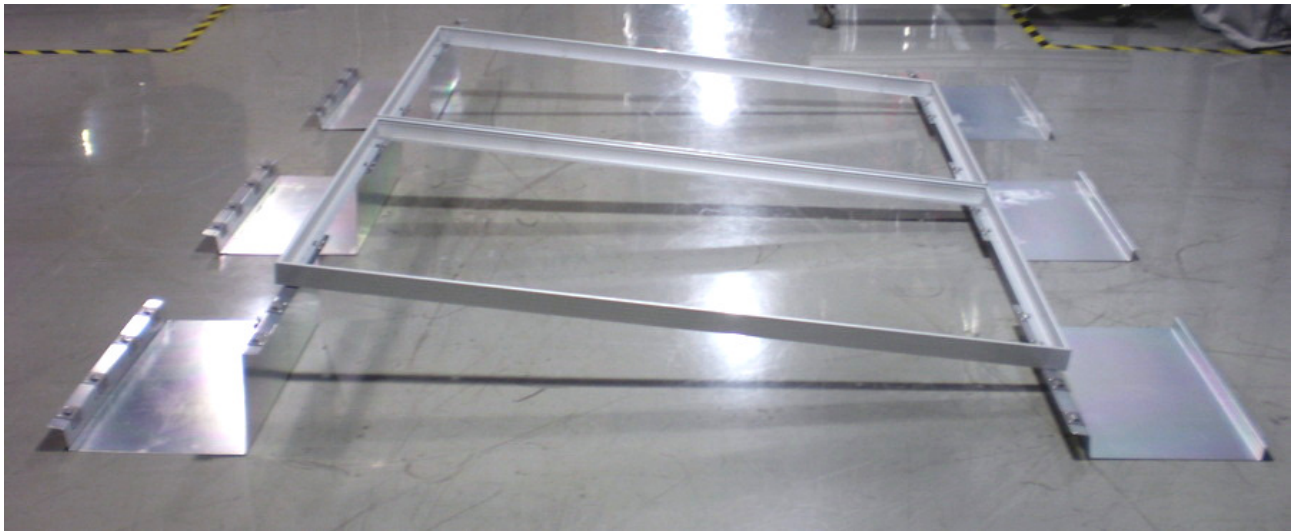
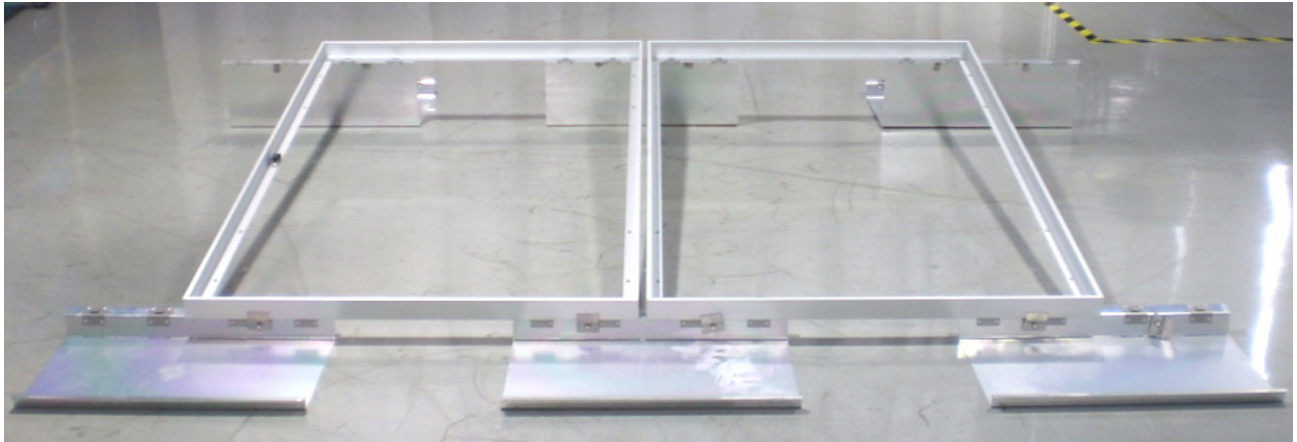
UL 2703

Clause	Requirement + Test	Result - Remark	Verdict
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CL.13 – BONDING PATH RESISTANCE TEST				
Maximum series overcurrent device rating (A).....:		15		—
Current applied (A)		30		—
Location of designated grounding point		Frame		—
Location of second contacting point		Racking mounting system frame		—
Requirement (Between grounding terminal and accessible conductive part)	Location	Voltage (mV)	Resistance (mΩ)	
≤0,1Ω	Grounding terminal / upper racking mounting system	362,2	12,1	P
≤0,1Ω	Grounding terminal / lower racking mounting system	479,5	16,0	P
supplementary information: N/A				

CL.13 – BONDING PATH RESISTANCE TEST				
Maximum series overcurrent device rating (A).....:		20		—
Current applied (A)		40		—
Location of designated grounding point		Frame		—
Location of second contacting point		Racking mounting system frame		—
Requirement (Between grounding terminal and accessible conductive part)	Location	Voltage (mV)	Resistance (mΩ)	
≤0,1Ω	Grounding terminal / upper racking mounting system	323,9	8,1	P
≤0,1Ω	Grounding terminal / lower racking mounting system	483,2	12,1	P
supplementary information: N/A				

Photos of sample:



List of measurement equipment

Description	Identification #	Application
Bonding Path Resistance tester	EC3825	2013.05.17-2014.05.16