

ASU-PTL Photovoltaic Module Qualification

Type Test Certificate C2-TRN07004a is awarded to

Manufacturer: Trina Solar Energy Co., Ltd.

Type: TSM-170DC01

Models: TSM-180DC01, TSM-175DC01, TSM-170DC01, TSM-165DC01, TSM-160DC01, TSM-155DC01, TSM-150DC01

Specifications: 72 Trina Solar monocrystalline silicon cells, Cixi Renhe j-box (PV-RH0502B) and connectors, EVA encapsulant, TPT backsheet, tempered glass superstrate, and anodized aluminum alloy frame. Max system voltage is 1000 V. (See photos on the back.)

Tested type: TSM-170DC01 Sampling: Thirteen manufacturer-supplied unconditioned test samples

Test samples received: 7/9/07 and 3/5/08

Tests conducted from: 7/10/07 to 4/1/08 and 3/14/08 to 9/11/08

Tests conducted at: PTL, 7349 E. Unity Avenue, Mesa, Arizona, 85212 Web: www.poly.asu.edu/ptl

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA).



Manufacturer's Address: Trina Solar Energy Co., Ltd., No.2 Xin Yuan Yi Road, Electronics Park, New District, Changzhou, Jiangsu, China

Test data and analysis detailed in Test Reports: [R-TRN07004a](#)

PTL Projects: [TRN07004](#), [TRN07004a](#)

Original Certificate Issue Date: [October 6, 2008](#)

The **Arizona State University Photovoltaic Testing Laboratory (ASU-PTL)** acknowledges that the above photovoltaic test samples have satisfied the requirements of the following test standard(s):

1. IEC 61215: Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval [2005-04].

Models listed above qualified based upon IEC Retest Guidelines [12/30/04] and IEC/TC82/WG2 Type and Model Conventions [4/16/02].

All tests in the above listed test standard(s) are within the ASU-PTL's scope of accreditation. Exception(s): None

Deviations from, additions to, or exclusions from aforementioned test standard(s): None

This test certificate may be used by the manufacturing company for its own purposes. However, the ASU-PTL cannot accept any legal responsibility from such use.

This test certificate pertains only to the modules tested at the date of test and does not guarantee any past or future performance.

If the tested type undergoes any future design or process modifications, limited re-testing is required to maintain valid certification according to the applicable Retest Guidelines.

This certificate is valid only with the accompanying photos on the back.

A handwritten signature in blue ink, appearing to read 'G. Tamizh-mani'.

Dr. Govindasamy Tamizh-mani, Director
Certifying Authority

A handwritten signature in blue ink, appearing to read 'Joseph M. Kuitche'.

Joseph M. Kuitche, Operations Manager
Certifying Witness

A handwritten signature in blue ink, appearing to read 'Bo Li'.

Bo Li, Test Manager
Certifying Witness