

# ASU-PTL Photovoltaic Module Qualification

Type Test Certificate C1-PUB07001 is awarded to

**Manufacturer: Shanghai Pubsolar Company, Ltd.**

**Type: GYS-180C**

**Models: GYS-195C, GYS-190C, GYS-185C, GYS-180C, GYS-175C, GYS-170C, GYS-165C**

Specifications: 72 monocrystalline silicon cells, Yukita j-box, EVA encapsulant, PET backsheet, tempered glass superstrate, anodized aluminum frame. Maximum system voltage is 1000 V. (See photos on back.)

Tested type: GYS-180C Sampling: Nine manufacturer-supplied unconditioned test samples

Test samples received: 1/31/08

Tests conducted from: 2/5/08 to: 8/25/08

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



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

Manufacturer's Address: Shanghai Pubsolar Co., Ltd., Building No.32 Lane 83 North Hongxiang Road, Wanxiang Industrial Park, Nanhui District, Shanghai, China 201313

Test data and analysis detailed in Test Report #: R-PUB07001

PTL Project: PUB07001-LZ

Certificate Issue Date: October 30, 2008

The **Arizona State University Photovoltaic Testing Laboratory (ASU-PTL)** acknowledges that the above photovoltaic modules have been subjected to and passed the minimum requirements defined in test standard(s):

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

The GYS-180C with PET backskin qualified by similarity to the GYS-165C (projects PUB06001-LZ and PUB06001a-LZ) based upon IEC Retest Guidelines [12/30/04].

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.*

Dr. Govindasamy Tamizh-mani, Director  
Certifying Authority

William Shisler, Quality Manager  
Certifying Witness

Bo Li, Test Manager  
Certifying Witness