



SCOPE OF ACCREDITATION TO ISO/IEC 17025-2005

WESTPAK, INC.  
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San Jose, CA 95119  
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MECHANICAL

Valid To: January 31, 2012

Certificate Number: 2870.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of Mechanical, Acoustical, and Vibration testing on various customer products and package systems:

<u>Test</u>	<u>Test Method(s)</u>
<u>Packaged Systems</u>	
Sinusoidal Vibration	ASTM D3580
Random Vibration	ASTM D4728
Shock Testing	ASTM D3332
Drop Testing	ASTM D5276
Compression Testing	ASTM D642
Loose Load Vibration	ASTM D999
Environmental Conditioning	ASTM D4332
Altitude Testing	ASTM D6653
Accelerated Aging	ASTM F1980
Bubble Emission Testing	ASTM F2096
Seal Strength Testing	ASTM F88
Burst Testing	ASTM F1140
Dye Penetration Testing	ASTM F1929
Concentrated Impact Testing	ASTM D6344
Mechanical Handling of Unitized Loads	ASTM D6179
Bridge Impact Testing	ASTM D5265
Incline Impact Testing	ASTM D880
Distribution Testing	ASTM D4169, D7386
Simulation Performance Testing	
Non-simulation Integrity Performance Testing	ISTA 1A, 1B, 1C, 1D, 1E, 1G, 1H
Partial Simulation Performance Testing	ISTA 2A, 2B, 2C, 2D, 2E, 2F
General Simulation Performance Testing	ISTA 3A, 3E, 3F

Test

Test Method(s)

Photovoltaics

Visual Inspection	IEC 61215 & 61646 Clause 10.1
Max Power Determination	IEC 61215 & 61646 Clause 10.2
Insulation Test (Dielectric Withstand)	IEC 61215 & 61646 Clause 10.3
Measurement of Temperature Coefficients	IEC 61215 & 61646 Clause 10.4
Measurement of NOCT	IEC 61215 & 61646 Clause 10.5
Outdoor Exposure Test	IEC 61215 & 61646 Clause 10.8
Thermal Cycling Test	IEC 61215 & IEC 61646 Clause 10.11
Humidity Freeze Test	IEC 61215 & IEC 61646 Clause 10.12
Damp Heat Test	IEC 61215 & IEC 61646 Clause 10.13
Robustness of Terminations	IEC 61215 & 61646 Clause 10.14
Wet Leakage Current Test	IEC 61215 & 61646 Clause 10.15
Mechanical Load Test	IEC 61215 & 61646 Clause 10.16
Hail Impact	IEC 61215 & 61646 Clause 10.17
Bypass Diode Thermal Test	IEC 61215 & 61646 Clause 10.18

Visual Inspection	IEC 61730-2 Clause 01
Accessibility Test	IEC 61730-2 Clause 11
Cut Susceptibility Test	IEC 61730-2 Clause 12
Ground Continuity Test	IEC 61730-2 Clause 13
Dielectric Withstand Test	IEC 61730-2 Clause 16
Wet Leakage Current Test	IEC 61730-2 Clause 17
Bypass Diode Thermal Test	IEC 61730-2 Clause 25
Reverse Current Overload Test	IEC 61730-2 Clause 26
Module Breakage Test	IEC 61730-2 Clause 32
Mechanical Load Test	IEC 61730-2 Clause 34
Robustness of Terminations	IEC 61730-2 Clause 42
Thermal Cycling Test	IEC 61730-2 Clause 51
Humidity Freeze Test	IEC 61730-2 Clause 52
Damp Heat Test	IEC 61730-2 Clause 53

Visual Inspection	IEC 62108 Clause 10.1
Electrical Performance Measurement	IEC 62108 Clause 10.2
Ground Path Continuity Test	IEC 62108 Clause 10.3
Electrical Insulation Test	IEC 62108 Clause 10.4
Wet Insulation Resistance Test	IEC 62108 Clause 10.5
Thermal Cycling Test	IEC 62108 Clause 10.6
Damp Heat Test	IEC 62108 Clause 10.7
Humidity Freeze Test	IEC 62108 Clause 10.8
Hail Impact Test	IEC 62108 Clause 10.9
Water Spray Test	IEC 62108 Clause 10.10
Bypass Diode Thermal Test	IEC 62108 Clause 10.11
Robustness of Terminations	IEC 62108 Clause 10.12
Mechanical Load Test	IEC 62108 Clause 10.13



Test

Test Method(s)

Photovoltaics (continued)

Accessibility Test	UL 1703 (15)
Voltage, Current and Power Measurement	UL 1703 (20)
Leakage Current Test	UL 1703 (21)
Strain Relief	UL 1703 (22)
Push Test	UL 1703 (23)
Cut Test	UL 1703 (24)
Bonding Path Resistance	UL 1703 (25)
Dielectric Voltage Withstand Test	UL 1703 (26, 43)
Wet Insulation Resistance Test	UL 1703 (27)
Reverse Current Overload Test	UL 1703 (28)
Terminal Torque Test	UL 1703 (29)
Impact Test	UL 1703 (30)
Water Spray Test	UL 1703 (33)
Temperature Cycling Test	UL 1703 (35)
Humidity Test	UL 1703 (36)
Mechanical Loading Test	UL 1703 (41)
Wiring Compartment Securement Test	UL 1703 (42)
Ground Continuity Test	UL 1703 (45)





The American Association for Laboratory Accreditation

World Class Accreditation

# Accredited Laboratory

A2LA has accredited

## WESTPAK, INC.

*San Jose, CA*

for technical competence in the field of

### Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Presented this 16<sup>th</sup> day of November 2009.



  
\_\_\_\_\_  
President & CEO

For the Accreditation Council  
Certificate Number 2870.01  
Valid to January 31, 2012

*For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*