




Shenzhen Southern LCS Compliance Testing Laboratory Ltd.  
Address: 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou  
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中国认可  
国际互认  
检测  
TESTING  
CNAS L10160

Report No.: LCS200828072BS

## TEST REPORT

Client..... : GlobTek, Inc.  
Address..... : 186 Veterans Dr. Northvale, NJ 07647 USA  
Brand Name..... :   
Manufacturer..... : GlobTek, Inc.  
Address..... : 186 Veterans Dr. Northvale, NJ 07647 USA  
Testing Laboratory.... : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.  
Address..... : 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou  
Community, Matian Street, Guangming District, Shenzhen, China  
Product Description.. : POWER SUPPLY  
Models..... : See model list on page 2  
Rating..... : See model list on page 2  
Method..... : IEC 60529:1989+A1:1999+A2:2013  
Test Item..... : IP22  
Date of Test..... : 2020-09-14~2020-09-15  
Date of Issue..... : 2020-09-24  
Test Result..... : Pass

Test by:

*Lisa Zeng*

\_\_\_\_\_  
Lisa Zeng/ Project Engineer

Check by:

*Torres He*

\_\_\_\_\_  
Torres He/ Director

Approved by:



Remark: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore.



**General product information:**

- All models have similar construction except model name are difference.
- Unless otherwise specified, the model GT\*86100-\*\*-W2\* was chosen as representative model to perform all test.

**Model list:**

Model	Rating
GT*86100-**-W2*	Input: 100-240V~, 50-60Hz or 50/60Hz, 0.3A
GT*86101-***-W2**	Output: 5.0-24Vdc, Max. 2A, Max.12W
GT*86100-**-W2*	
The 1st “*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.	
The 2nd “*” denotes the rated output wattage designation, which can be “01” to “10”, with interval of 1	
The 3rd “*” denotes the rated output voltage designation, which can be “5.0”, “5.1”, “5.2” or “05”, “05.1”, “05.2”	
The 4th “*” designates type of plug and can be E for European plug, U for British plug, blank for North American /Japan plug/Taiwan plug, C for China plug, A for Australia plug, K for Korea plug.	
GT*86101-***-W2**	
The 1st “*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.	
The 2nd “*” denotes the rated output wattage designation, which can be “01” to “12”, with interval of 1.	
The 3rd “*” denotes the standard rated output voltage designation, which can be “05.95”, “07.5”, “09”, “12.0”, “15.0”, “24.0” or “5.95”, “7.5”, “9.0”, “12”, “15”, “24”.	
The 4th “*” is optional deviation, subtracted from standard output voltage, which can be “-0.01” to “-8.9” with interval of 0.01, or blank to indicate no voltage different.	
The 3rd “*” and 4th “*” together denote the output voltage, with a range of 5.95 -24Vdc.	
The 5th “*” designates type of plug and can be E for European plug, U for British plug, blank for North American/Japan plug/Taiwan plug, C for China plug, A for Australia plug, K for Korea plug, I for India plug, AR for Argentina plug, BR for Brazil plug, SA or AF for South African plug.	
The last “*” can be any six character 0 to 9 or A to Z, “( )”, “[ ]”, “-” or blank for marketing purpose.	



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**Equipment used during test:**

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-094	Test finger	AGPB	2020-05-15
SLCS-S-032	Dripping rain test device	DJ-B	2020-05-15
SLCS-S-135	Digital hygrometer thermometer	HTC-1	2020-05-15



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**Test Item:**

Acceptance conditions for first characteristic numerals 2

**Test Method:**

The tests should be carried out under the standard atmospheric condition.

Temperature range: 20°C to 30°C

The object probe is pushed against any openings of the enclosure with the force specified in table 7.

The jointed test finger may penetrate to its 80 mm length, but the stop face ( $\Phi 50$  mm $\times$ 20 mm) shall not pass through the opening. Starting from the straight position, both joints of the test finger shall be successively bent through an angle of up to 90° with respect to the axis of the adjoining section of the finger and shall be placed in every possible position.

The test force shall be 10 N  $\pm$  10 %.

**Acceptance Conditions:**

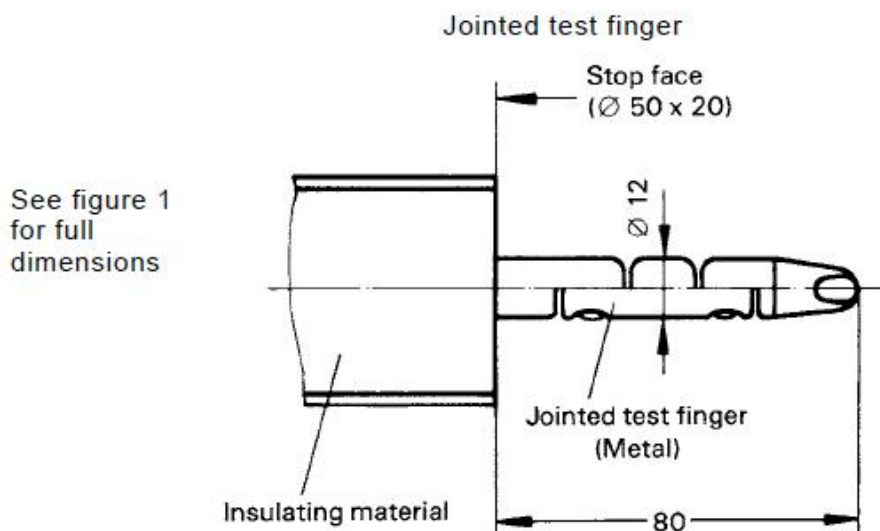
The sphere of 12,5 mm  $\Phi$  shall not fully penetrate.

The access probe shall not touch hazardous live parts.

If adequate clearance is verified by a signal circuit between the probe and hazardous parts, the lamp shall not light.

**Test Result:**

☒ Pass ☐ Fail



IEC 274/01

**Table 7 – Test means for the tests for protection against solid foreign objects**

First character-istic numeral	Test means (object probes and dust chamber)	Test force	Test conditions, see
0	No test required	–	–
1	Rigid sphere without handle or guard $50^{+0,05}_0$ mm diameter	$50\text{ N} \pm 10\%$	13.2
2	Rigid sphere without handle or guard $12,5^{+0,2}_0$ mm diameter	$30\text{ N} \pm 10\%$	13.2
3	Rigid steel rod $2,5^{+0,05}_0$ mm diameter with edges free from burrs	$3\text{ N} \pm 10\%$	13.2
4	Rigid steel rod $1,0^{+0,05}_0$ mm diameter with edges free from burrs	$1\text{ N} \pm 10\%$	13.2
5	Dust chamber figure 2, with or without underpressure	–	13.4 + 13.5
6	Dust chamber figure 2, with under-pressure	–	13.4 + 13.6



**Test Item:**

Test for second characteristic numeral 2 with the drip box

**Atmospheric conditions for water or dust tests:**

Air pressure: 86 kPa to 106 kPa

Temperature range: 20°C to 30°C

Relative humidity: 25 %RH to 75 %RH

**Test samples:**

Clean and new sample were be tested

**Test Method:**

An example of such a device is shown in figure 3 a).

The table on which the enclosure is placed does not turn as in the case of the test for the second characteristic numeral 2.

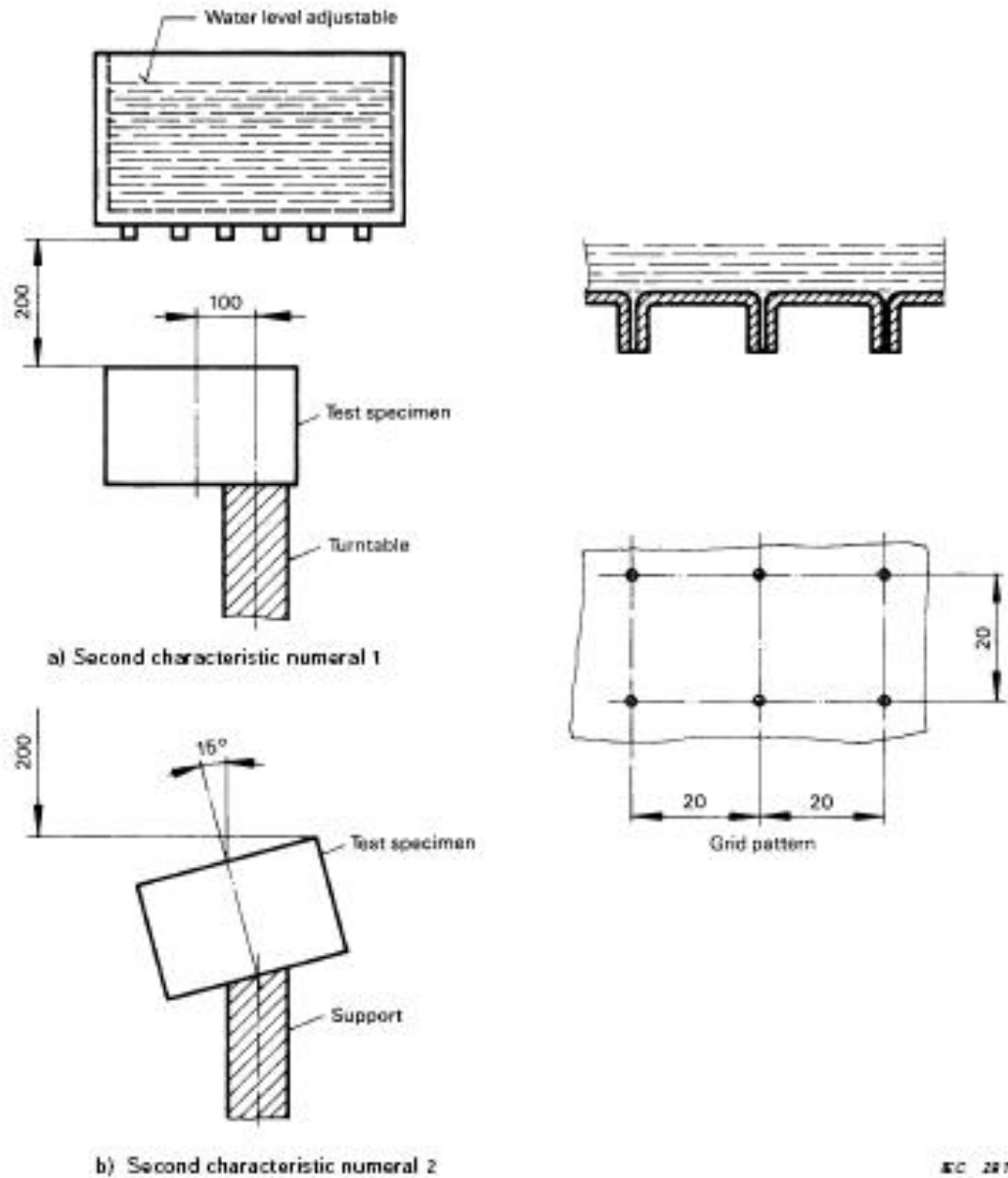
The enclosure is tested for 2,5 min in each of four fixed positions of tilt.

These positions are 15° on either side of the vertical in two mutually perpendicular planes (see figure 3b)).

The total duration of the test is 10 min.

**Test Result:**

☒ Pass ☐ Fail



Dimensions in millimetres

Figure 3 – Test device to verify protection against vertically falling water drops (drip box)





## Photo Documentation:

Photo 1: Overall view of model GT\*86100-\*\*-W2\*



Photo 2: Overall view of model GT\*86100-\*\*-W2\*







### Photo Documentation:

Photo 3: Overall view of model GT\*86101-\*\*\*-W2\*\*



Photo 4: Overall view of model GT\*86101-\*\*\*-W2\*\*





### Photo Documentation:

Photo 5: IP2X test of model GT\*86100-\*\*-W2\*

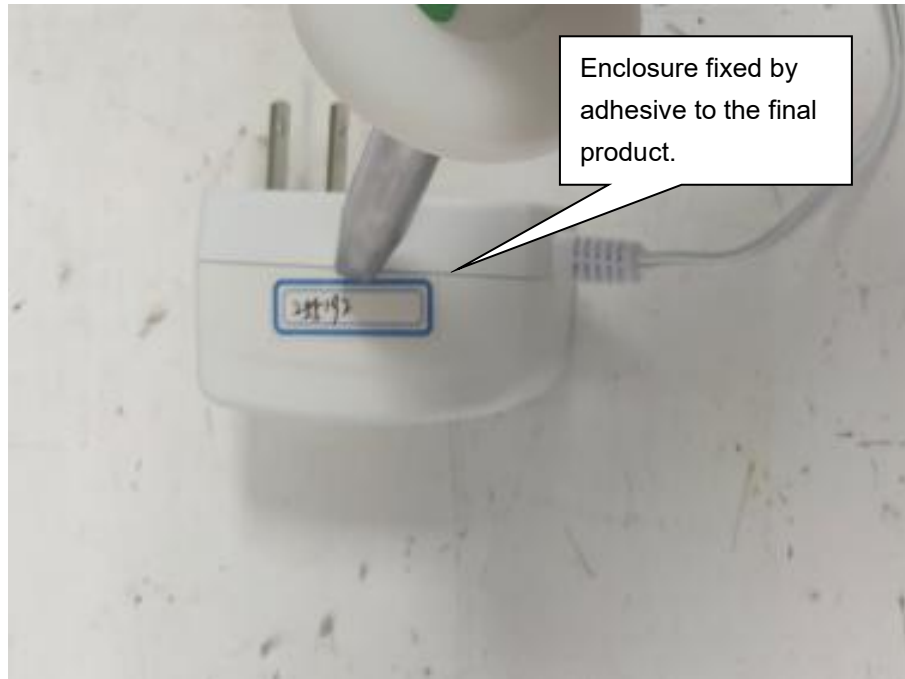


Photo 6: IP2X test of model GT\*86100-\*\*-W2\*





### Photo Documentation:

Photo 7: IPX2 test of model GT\*86100-\*\*-W2\*



Photo 8: IPX2 test of model GT\*86100-\*\*-W2\*







### Photo Documentation:

Photo 9: Test result after IP2X and IPX2 test



Photo 10: Test result after IP2X and IPX2 test



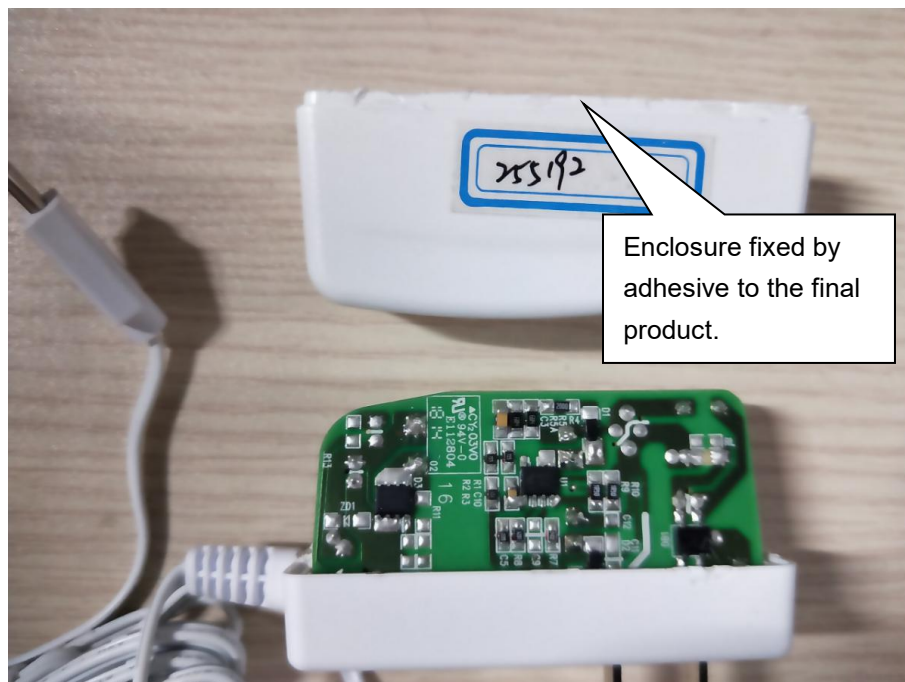


### Photo Documentation:

Photo 11: Test result after IP2X and IPX2 test



Photo 12: Test result after IP2X and IPX2 test





### Photo Documentation:

Photo 13: Internal photo of model GT\*86101-\*\*\*-W2\*\*



Photo 14: Internal photo of model GT\*86101-\*\*\*-W2\*\*







### Photo Documentation:

Photo 15: Internal photo of model GT\*86101-\*\*\*-W2\*\*

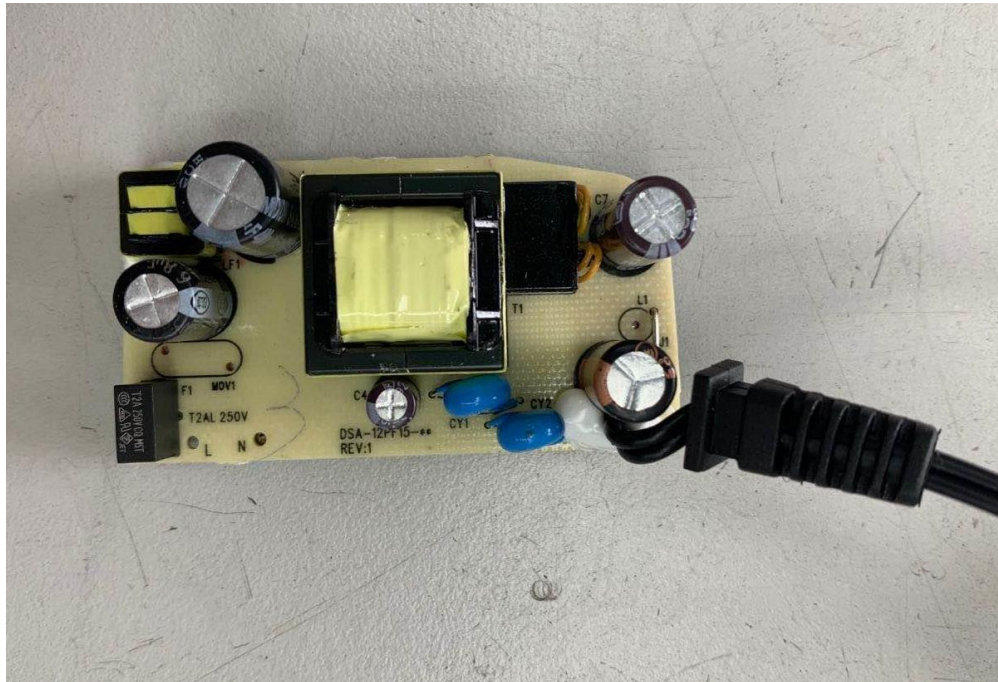


Photo 16: Internal photo of model GT\*86101-\*\*\*-W2\*\*



----- End of Test Report-----