



# TEST REPORT

**Reference No** ..... : WTU17U0476995S  
**Applicant** ..... : GlobTek, Inc.  
**Address** ..... : 186 Veterans Dr. Northvale NJ 07647 USA  
**Manufacturer** ..... : GlobTek (Suzhou) Co., Ltd  
**Address** ..... : Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, China  
**Product Name** ..... : Power Supply  
**Model No** ..... : See model list on page 2  
**Ratings** ..... : 100-240V~, 50-60Hz, IP42  
**Standards** ..... : IEC 60529:1989+A1:1999+A2:2013  
**Test Category** ..... : Entrusted Test  
**Test Item** ..... : IP42 Test  
**Date of Receipt sample** ..... : 2017-04-20  
**Date of Test** ..... : 2017-04-20 to 2017-05-02  
**Date of Issue** ..... : 2017-05-02  
**Test Report Form No.** ..... : WST-60529-33B  
**Test Result** ..... : Pass

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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## List of test items:

No.	Test Items	Requirement + Test	Result
1	IP42 Test	IEC 60529:1989+A1:1999+A2:2013	Pass

## Subcontract

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test items: ---

Lab information: --

## Remarks:

1. All models have the same structure except output voltage, current and AC inlet.

2. Model list:

Model	Output voltage(Vdc)	Max. output current(A)	Remark
GTM21089-0903-T3/2	3.3	2.6	M can be "M" or "-" for market identification and not related to safety. - X.X denotes the optional deviation, subtracted or added from standard output voltage in 0.1 volt increments or blank to indicate the no voltage different.
GTM21089-1305-X.X-T3/2	3.4-5	2.6	
GTM21089-1506-X.X-T3/2	5.1-6	2.6	
GTM21089-1509-X.X-T3/2	6.1-9	2.5	
GTM21089-1512-X.X-T3/2	9.1-12	1.6	
GTM21089-1815-X.X-T3/2	12.1-15	1.5	
GTM21089-1818-X.X-T3/2	15.1-18	1.2	
GTM21089-1824-X.X-T3/2	18.1-24	1.0	
GTM21089-1948-X.X-T3/2	24.1-48	0.8	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 "36", with interval of 1. The 3rd "*" denotes the standard rated output voltage designation, which can be "07", "11", "17.9", "30", "38", "48", "54" or "56". The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-12.0" 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 - 56 volts. The 5th "*" can be "-T2", "-T2A", "-T3" or "-T3A". -T2 means desktop class II with C8 AC inlet, -T2A means desktop class II with bigger C8 inlet, -T3 means desktop class I with C14 AC inlet, -T3A means desktop class I with C6 AC inlet. The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for marketing purposes.
GT*96180-*****	5-56	3.6	

3. Full tests have been carried out on model GTM21089-1948-T3





## Test Item :

Tests for protection against solid foreign objects: IP4X

## Test Method:

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

The atmospheric conditions during tests are as follows:

Temperature range: 15 °C to 35 °C. Relative humidity: 25% to 75%.

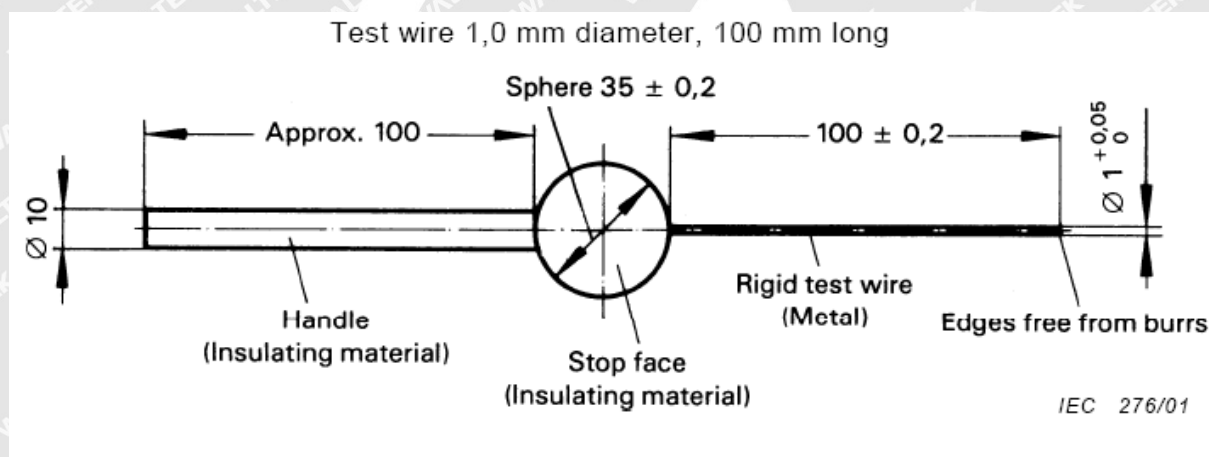
The test wire of 1.0 mm  $\phi$  insert into any openings of the enclosure with a force of  $1\text{N} \pm 10\%$ .

## Acceptance Conditions:

The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.

The protection is satisfactory if the access probe 1.0 mm diameter shall not pass through the any opening.

## Test Result:

☒ **Pass**    ☐ Fail



## Test Item :

Tests for protection against ingress moisture: IPX2

## Test Method:

The tests should be carried out under the standard atmospheric condition. The atmospheric conditions during tests are as follows:

Temperature range: 15 °C to 35 °C; Relative humidity: 25% to 75%.

The tests are conducted with fresh water. The water temperature should not differ by more than 5 K from the temperature of the specimen under test. If the water temperature is more than 5 K below the temperature of the specimen a pressure balance shall be provided for the enclosure.

The test is made with a device which produces a uniform flow of water drops over the whole area of the enclosure. An example of such a device is shown in figure 3 a). The table on which the enclosure is placed does not turn and the eccentricity (distance between turntable axis and specimen axis) is approximately 100 mm. The enclosure under test is placed in its normal operating position under the drip box, the base of which is larger than that of the enclosure. Except for enclosures designed for wall or ceiling mounting, the support for the enclosure under test should be smaller than the base of the enclosure. An enclosure normally fixed to a wall or ceiling is fixed in its normal position of use to a wooden board having dimensions which are equal to those of that surface of the enclosure which is in contact with the wall or ceiling when the enclosure is mounted as in normal use.

Water flow rate is 3.0-3.5 mm/min. 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. The duration of test is 10 min.

NOTE When the base of the drip box is smaller than that of the enclosure under test, the latter may be divided into several sections, the area of each section being large enough to be covered by the dripping water. The test is continued until the whole area of the enclosure has been sprinkled for the specified time.

## Acceptance Conditions:

After testing in accordance with the appropriate requirements, the enclosure shall be inspected for ingress of water.

It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any.

In general, if any water has entered, it shall not:

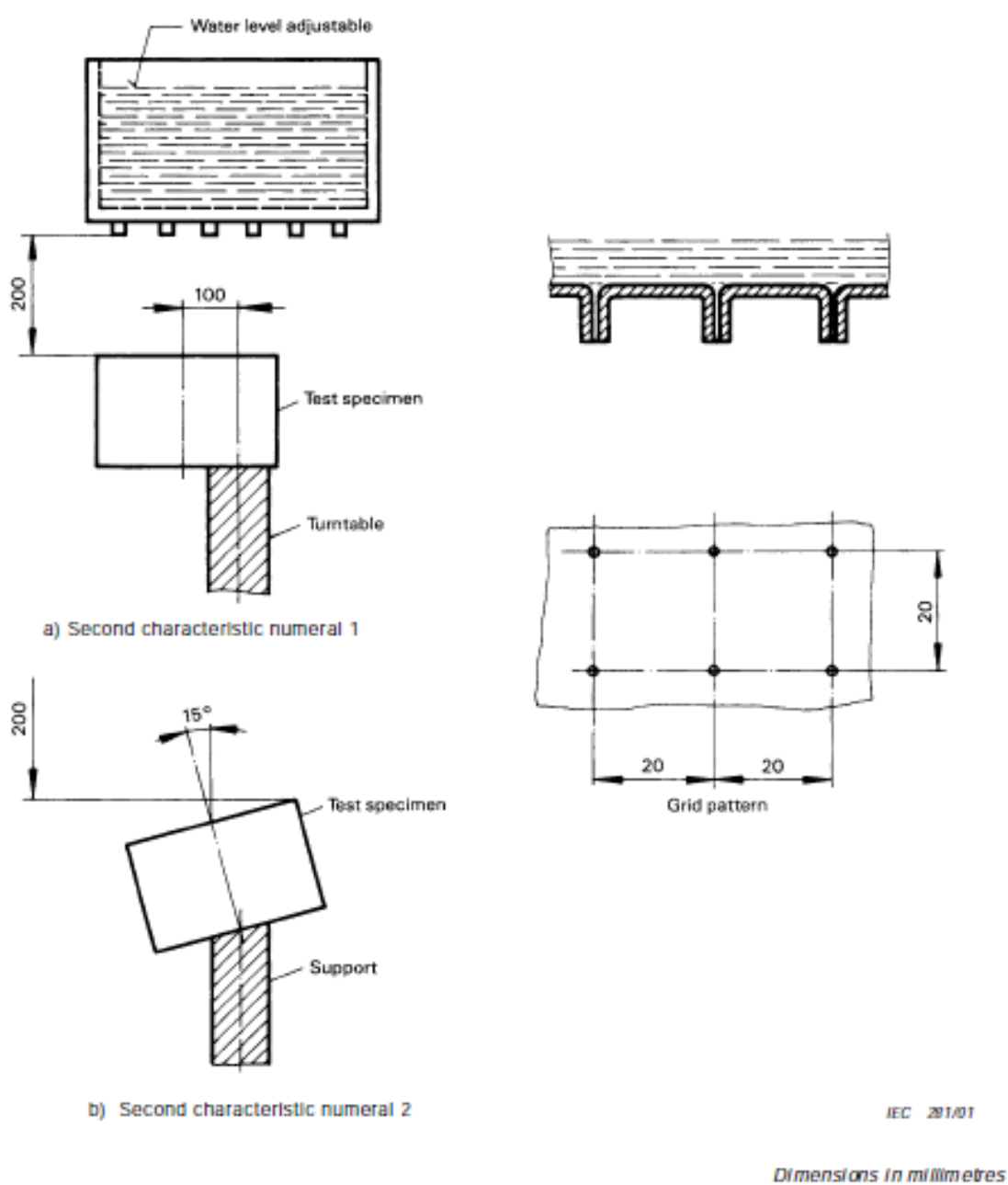
- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

## Test Result:

☒ **Pass**   ☐ Fail



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





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Photos Documentation :  
Model: GTM21089-1948-T3



Photo 1

Model: GTM21089-1948-T3



Photo 2





During the IPX2 test



Photo 3

After the IPX2 test



Photo 4





After the IPX2 test



Photo 5

After the IPX2 test

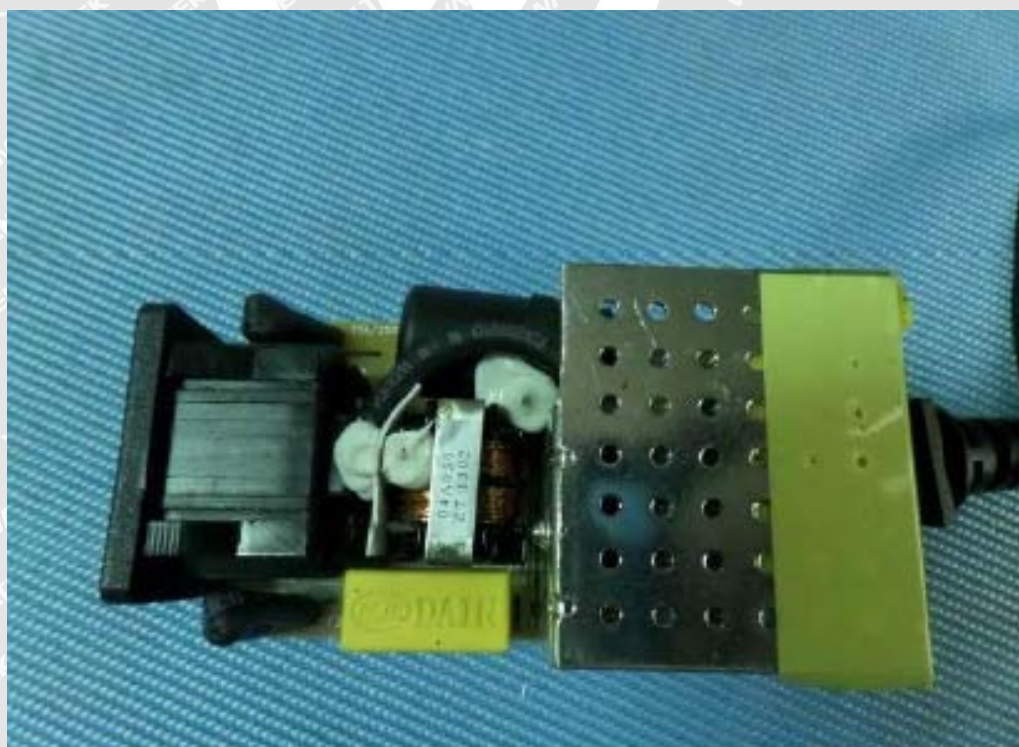


Photo 6





## Equipment Used during Test :

Equipment	Model/Type	Cal. Date
Standard test pin	IEC61032 probe D	2018-03-09
Power Meter	YUANFANG PF9811	2018-06-17
Dielectric & Insulation Resistance Tester	CHROMA 9012	2018-03-03
Protection against water test device	HAIYU HY-IPX1-6	2018-03-03
Tape Measure	Assist 3m	2018-03-04
Temperature & Humidity Datalogger	Testo 608-H1	2018-03-07

===== End of Report =====

**WALTEK**