



Slovenski institut za
kakovost in meroslovje
Slovenian Institute of
Quality and Metrology

Poročilo o preskusu / Test Report

Št. / No.:

T211-0463/12

Datum / Date:

2012-10-08

Proizvod / Product Power supply Model: GT-21089-WWVV-X.X-T2 series GTM21089-WWVV-X.X-T2 series Enclosure: TR9KA2600LCP-Y(R)	Listov / Pages 3
Naročnik / Applicant GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA	Vrsta preskusa / Test procedure IP40, IP41
Proizvajalec / Manufacturer GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA	Št. Merjencev / No. of Items tested 1
Blagovna znamka / Trade Mark GlobTek	Mapa predmeta št. / Subject File No. C20121557
Standardi – predpisi / Standards - regulations IEC 60529:2001	Kraj preskusa / Place of test SIQ - Slovenian Institute of Quality and Metrology, Tržaška 2, 1000 Ljubljana, Slovenia
	Opomba / Remark /

Zaključek / Conclusion

Tested product complies with the requirements of stated standards for protection degree IP 40.

The test results relate only to the items tested.

Date of receipt of test items: 2012-07-16

Date of performance of tests: 2012-07-16 to 2012-09-19

(Tested product not complies with the requirements of stated standards for protection degree IP 41)

Testni laboratorij je akreditiran pri Slovenski akreditaciji, reg. št.: LP-009 /
Testing Laboratory is accredited by Slovenian Accreditation, Reg. No. LP-009

Odgovoren za preskušanje / Responsible for the test

Vodja področja / Department Manager

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1 TEST EQUIPMENT

- Rigid test wire diameter of 1 mm as specified by the standard (2013-01-22),
- Test device for verification of protection against vertically falling water drops-drip box-SIQ,
- High voltage tester ELABO Type 92-1G3 (2013-01-14)

Note: The date of the recommended recalibration is given for each measuring instrument (in brackets).

2 EQUIPMENT UNDER TEST (EUT)

Power supply, model GT-21089-WWVV-X.X-T2 series and GTM21089-WWVV-X.X-T2 series, enclosure TR9KA2600LCP-Y(R) was subjected to testing for IP41 degree of protection (Figures 1 and 2).



Figure 1



Figure 2

IP41 numeric description:

The first characteristic numeral **X**: indicates the degree of protection against access to hazardous parts and against solid foreign objects. Test equipment for degree 4 is rigid test wire of 1 mm diameter. The protection is satisfactory if the rigid wire does not fully penetrate and adequate clearance is kept.

The second characteristic numeral **Y** indicates the degree of protection provided by enclosures with respect to harmful effects on the equipment due to the ingress of water (degree 1-protected against dripping water). If any water has entered shall have no harmful effects.

3 TEST CONDITIONS

During the testing the sample was equipped with appliance connector.

3.1 Test for protection against solid foreign objects-IP4X (IEC 60529, tables 2 and 7, sub-cl. 13.2)

Procedure:

- Environmental temperature 23⁰C,
- Rigid test wire diameter of 1 mm (as specified by the standard) is pushed against any openings of the enclosure with the force of 1 N,
- Non-operating condition

Conclusion: The rigid test wire was not penetrated into the enclosure.

3.2 Tests for protection against ingress of water-IPX1 (IEC 60529, table 8, sub-cl. 14.2.1)

Procedure:

- Test device, drip box-as specified in standard,
- Water flow rate: 1 mm/min,
- The test sample was placed on the turntable under the drip box in most unfavourable normal position (Figure 3),
- Duration of the exposure: 10 minutes,

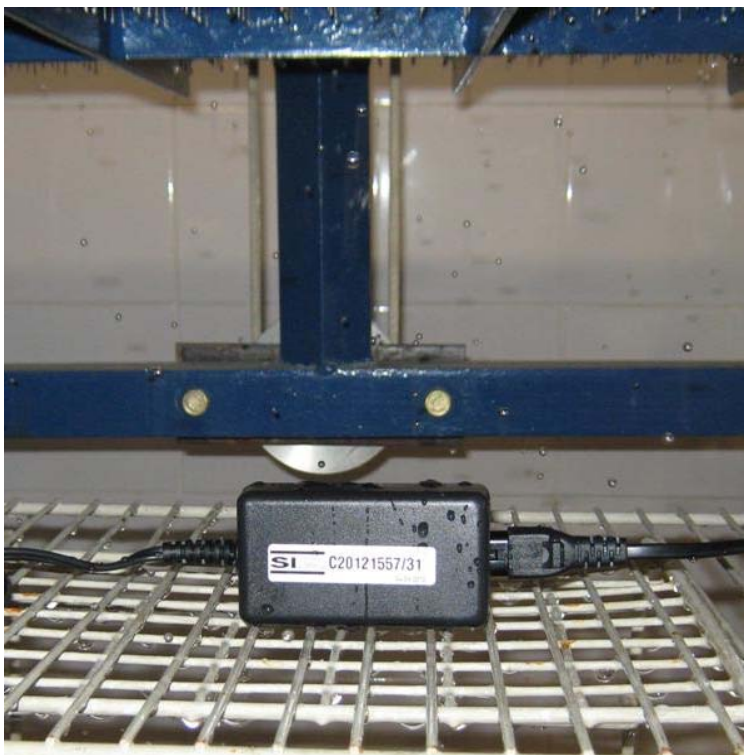


Figure 3: Test position

Conclusion: After the water test there was water on the connector pins.

3.3 Electric strength test

Immediately following the water test the dielectric strength test with 4000 V a.c. has been conducted between primary and secondary terminals and between primary terminals and enclosure. The voltage was applied and maintained for a period of one minute between the points indicated. The test did NOT pass.

4 CONCLUSIONS

After the exposure was concluded, the visual examination of the sample was performed. Results were obtained as follows:

- The rigid test wire was not penetrated into the enclosure
- After the IPX1 test there was water on connector pins.
- After the IPX1 test the dielectric strength test did NOT pass.

Result: Following the acceptance conditions, the equipment under test sustained the test conditions for IP40 degree of protection.