

Poročilo o preskusu / Test Report

Št. / No.: T211-0453/12 Datum / Date: 2012-10-08 Listov / Pages Proizvod / Product Power supply 3 Model: GT-21131-WWVV-X.X series Enclosure: TR9CE6000LCP-Y(R) Vrsta preskusa /Test procedure IP40, IP41 St. Merjencev / No. of Items tested Naročnik / Applicant GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA 1 Mapa predmeta št. / Subject File No. Proizvajalec / Manufacturer GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA C20121557 Blagovna znamka / Trade Mark Kraj preskusa / Place of test GlobTek SIQ - Slovenian Institute of Quality and Metrology, Tržaška 2, 1000 Ljubljana, Slovenia Standardi - predpisi / Standards - regulations Opomba / Remark IEC 60529:2001 1 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 Mirko Čokodr. Miha Otrin DA Slovenski institut za kakovost in meroslovje • Slovenian Institute of Quality and Metrotogy Tržaška cesta 2, SI-1000 Ljubljana, Slovenia • t: +386 1 4778 100 • f: +386 1 4778 444 • e: info@siq.si • http://www.siq.si Razmnoževanje poročila, razen v celoti, ni dovoljeno / This report shall not be reproduced except in full

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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-21131-WWVV-X.X series, enclosure TR9CE6000LCP-Y(R) was subjected to testing for IP41 degree of protection (Figures 1 and 2).



Figure 1

Figure 2

IP41 numeric description:

<u>The first characteristic numeral X</u>: 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.

<u>The second characteristic numeral Y</u> 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 23^oC,
- 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.





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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.

