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

Poročilo o preskusu / Test Report

Št. / *No.:*

T211-0480/12

Datum / *Date:*

2012-10-08

Proizvod / *Product*	**Listov / *Pages***
Power supply Model: GT-21089-WWVV-X.X-W3Z series GTM21089-WWVV-X.X-W3Z series, GT-41080-WWVV-X.X-W3Zseries GTM41080-WWVV-X.X-W3Z series GTM91075-6012-W3E GT-41080-WWVV-X.X-W3E, Enclosure: WR92A2600CCP-Y(R)	4
	Vrsta preskusa /*Test procedure*
	IP40, IP41
Naročnik / *Applicant*	**Št. Merjencev / *No. of Items tested***
GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA	1
Proizvajalec / *Manufacturer*	**Mapa predmeta št. / *Subject File No.***
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	/

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*

Mirko Čoko

Vodja področja / *Department Manager*

dr. Miha Otrin

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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-W3Z series, GTM21089-WWVV-X.X-W3Z series, GT-41080-WWVV-X.X-W3Z series, GTM41080-WWVV-X.X-W3Z series, GTM91075-6012-W3E and GT-41080-WWVV-X.X-W3E, enclosure WR92A2600CCP-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

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

Procedure:

- Environmental temperature 23^0C,
- 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 (Figures 3 and 4),
- Duration of the exposure: 10 minutes,



Figure 3: Test position



Figure 4: Test position

Conclusion: After the water test there was water inside the enclosure (Figures 5 and 6).

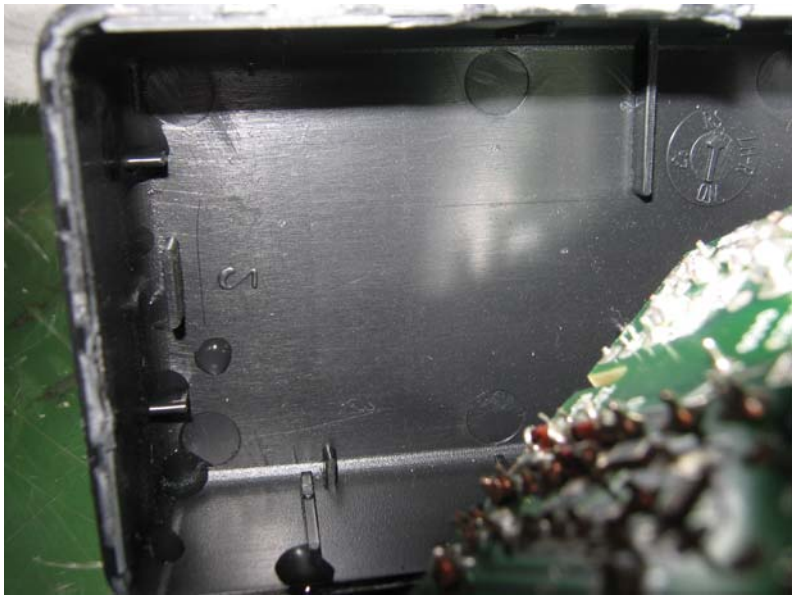


Figure 5

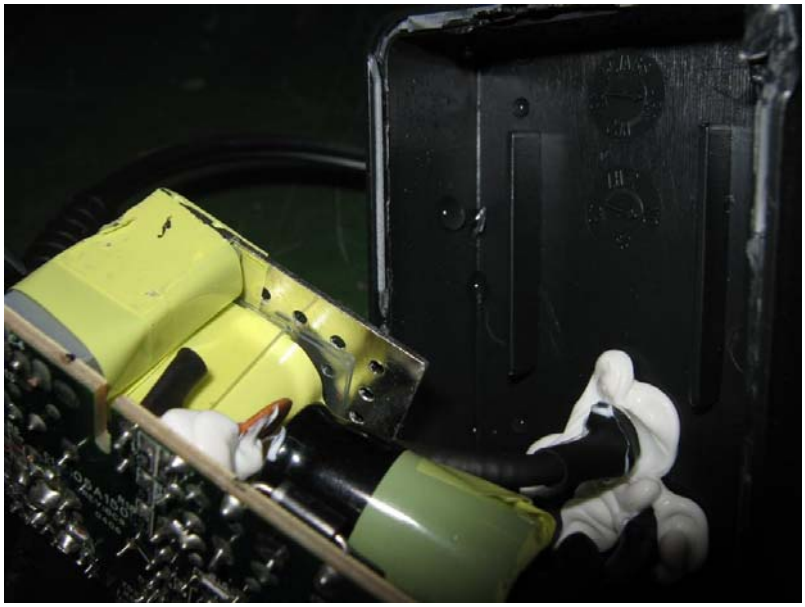


Figure 6

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 inside the enclosure.

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