

# Poročilo o preskusu / Test Report

Št. / No.:  
T211-0457/12

Datum / Date:  
2012-10-08

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f2f2f2;"><b>Proizvod / Product</b></td> </tr> <tr> <td>Power supply Model: GTMB1057-WVVV-X.X series GT-B1057-WVVV-X.X series Enclosure: TR9CE5000N05-C-MED(R)</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Naročnik / Applicant</b></td> </tr> <tr> <td>GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Proizvajalec / Manufacturer</b></td> </tr> <tr> <td>GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Blagovna znamka / Trade Mark</b></td> </tr> <tr> <td>GlobTek</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Standardi - predpisi / Standards - regulations</b></td> </tr> <tr> <td>IEC 60529:2001</td> </tr> </table>	<b>Proizvod / Product</b>	Power supply Model: GTMB1057-WVVV-X.X series GT-B1057-WVVV-X.X series Enclosure: TR9CE5000N05-C-MED(R)	<b>Naročnik / Applicant</b>	GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA	<b>Proizvajalec / Manufacturer</b>	GlobTek, Inc 186 Veterans Dr, Northvale, NJ 07647 / USA	<b>Blagovna znamka / Trade Mark</b>	GlobTek	<b>Standardi - predpisi / Standards - regulations</b>	IEC 60529:2001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f2f2f2;"><b>Listov / Pages</b></td> </tr> <tr> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Vrsta preskusa / Test procedure</b></td> </tr> <tr> <td style="text-align: center;">IP40, IP41</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Št. Merjencev / No. of Items tested</b></td> </tr> <tr> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Mapa predmeta št. / Subject File No.</b></td> </tr> <tr> <td style="text-align: center;">C20121557</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Kraj preskusa / Place of test</b></td> </tr> <tr> <td>SIQ - Slovenian Institute of Quality and Metrology, Tržaška 2, 1000 Ljubljana, Slovenia</td> </tr> <tr> <td style="background-color: #f2f2f2;"><b>Opomba / Remark</b></td> </tr> <tr> <td style="text-align: center;">/</td> </tr> </table>	<b>Listov / Pages</b>	3	<b>Vrsta preskusa / Test procedure</b>	IP40, IP41	<b>Št. Merjencev / No. of Items tested</b>	1	<b>Mapa predmeta št. / Subject File No.</b>	C20121557	<b>Kraj preskusa / Place of test</b>	SIQ - Slovenian Institute of Quality and Metrology, Tržaška 2, 1000 Ljubljana, Slovenia	<b>Opomba / Remark</b>	/
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<b>Zaključek / Conclusion</b>
<p><b>Tested product complies with the requirements of stated standards for protection degree IP 40.</b></p> <p>The test results relate only to the items tested.</p> <p>Date of receipt of test items: 2012-07-16</p> <p>Date of performance of tests: 2012-07-16 to 2012-09-19</p> <p>(Tested product not complies with the requirements of stated standards for protection degree IP 41)</p>

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 Čok  


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 GTMB1057-WWVV-X.X series and GT-B1057-WWVV-X.X series, enclosure TR9CE5000N05-C-MED(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 23°C,
- 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.