

Mean Well Enterprises Co., Ltd.  
 No.28, Wuquan 3rd Road, Wugu Dist, New  
 Taipei City 248, Taiwan

Att. Mr. Johnny Huang

Our reference 4355756.50  
 Author Michael Liu  
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 Date 2019-08-05

Subject:

**IP67 test report**

**PRODUCT DATA:**

Product : Switching Power Supply  
 Trade mark / Manufacturer : MEAN WELL  
 Type / model : OWA-60E-X, OWA-60U-X (X=12, 15, 20, 24, 27, 28, 30, 36, 42, 48, 54 represent the output voltage), OWA-60E-20TKOM  
 Quantity of sample : 2 pcs  
 Rating : Input: 100-240 VAC, 1,2 A, 50/60 Hz, IP67 for power body  
 Class : Class II  
 Degree of protection : IP67  
 Further information : The equipment under test is switching power supply with power supply cord and plug, and it is totally filled by self-hardening resin.

All models are identical with the same schematic circuit diagram and structure except turns of secondary coil of transformer depending on output voltage and power cord and plug.

Model	OWA-60E-12, OWA-60U-12	OWA-60E-15, OWA-60U-15	OWA-60E-20, OWA-60U-20	OWA-60E-24, OWA-60U-24	OWA-60E-27, OWA-60U-27	
Output rating	12 Vdc, 5 A	15 Vdc, 4 A	20 Vdc, 3 A	24 Vdc, 2,5 A	27 Vdc, 2,23 A	
Model	OWA-60E-28 OWA-60U-28	OWA-60E-30 OWA-60U-30	OWA-60E-36 OWA-60U-36	OWA-60E-42 OWA-60U-42	OWA-60E-48 OWA-60U-48	OWA-60E-54 OWA-60U-54
Output rating	28 Vdc, 2,2 A	30 Vdc, 2 A	36 Vdc, 1,67 A	42 Vdc, 1,5 A	48 Vdc, 1,25 A	54 Vdc, 1,12 A

**Model: OWA-60E-20TKOM, output rating: 20Vdc, 3A**

**TEST STANDARD:**

**The IP67 test carried out based on the following test requirements**

IEC 60529:1989 + A1:1999 + A2:2013

**CONCLUSION:**

Based on the test results given in this report, the construction of the submitted sample does comply with the above mentioned safety requirements except for the output connector without evaluation.

**TEST RESULTS:**

Clause	Requirement	Remarks	Verdict
1	Scope and object		--
2	Normative reference		--
3	Definitions		--
4	Designations		--
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral	IP67	Pass
6	Degrees of protection against ingress of water indicated by the second characteristic numeral	IP67	Pass
7	Degrees of protection against access to hazardous parts indicated by the additional letter		N/A
8	Supplementary letter		N/A
9	Examples of designations with the IP code		N/A
10	Marking	Not checked	N/A
11	General test requirements		Pass
12	Test for protection against access to hazardous parts indicated by the first characteristic numeral		Pass
13	Test for protection against solid foreign objects indicated by the first characteristic numeral		Pass
14	Test for protection against water indicated by the second characteristic numeral		Pass
15	Test for protection against access to hazardous parts indicated by the additional letter		N/A

**PHOTOS:**



Overview with potting compound



Overview with potting compound



Overview (OWA-60E-20TKOM)



Overview (OWA-60E-20TKOM)

**Please note that every statement made in this report is only valid for the sample tested and reported herein.**

Trusting to have informed you sufficiently, we remain,

With best regards

DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch

**Engineer name** : Among Chen

**Engineer signature** :



**Reviewed by** : Allen Han

**Reviewer signature** :



Mean Well Enterprises Co., Ltd.  
 No.28, Wuquan 3rd Road, Wugu Dist, New  
 Taipei City 248, Taiwan

Att. Mr. Johnny Huang

Our reference 4345301.50  
 Author Lyne Wang  
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 Telefax 6661 2001  
 E-mail [Lyne.Wang@dekra-certification.cn](mailto:Lyne.Wang@dekra-certification.cn)  
 Date 2018-04-28

Subject:

**IP67 test report**

**PRODUCT DATA:**

Product : Switching Power Supply  
 Trade mark / Manufacturer : MEAN WELL  
 Type / model : OWA-60E-X, OWA-60U-X (X=12, 15, 20, 24, 27, 28, 30, 36, 42, 48, 54 represent the output voltage), OWA-60U-27VCAM, OWA-60U-27VUSM  
 Quantity of sample : 2 pcs  
 Rating : Input: 100-240 VAC, 1,2 A, 50/60 Hz, IP67 for power body  
 Class : Class II  
 Degree of protection : IP67  
 Further information : The equipment under test is switching power supply with power supply cord and plug, and it is totally filled by self-hardening resin.

All models are identical with the same schematic circuit diagram and structure except turns of secondary coil of transformer depending on output voltage and power cord and plug.

The test report is based on the report 4321198.52 issued by DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch on 2015-04-29, it is issued due to add the model OWA-60U-27VCAM, OWA-60U-27VUSM which is identical to the previous model OWA-60U-27 except the model name and plug type. After technical evaluation, no additional test is needed.

Model	OWA-60E-12, OWA-60U-12	OWA-60E-15, OWA-60U-15	OWA-60E-20, OWA-60U-20	OWA-60E-24, OWA-60U-24	OWA-60E-27, OWA-60U-27, OWA-60U-27VCAM, OWA-60U-27VUSM	
Output rating	12 Vdc, 5 A	15 Vdc, 4 A	20 Vdc, 3 A	24 Vdc, 2,5 A	27 Vdc, 2,23 A	
Model	OWA-60E-28 OWA-60U-28	OWA-60E-30 OWA-60U-30	OWA-60E-36 OWA-60U-36	OWA-60E-42 OWA-60U-42	OWA-60E-48 OWA-60U-48	OWA-60E-54 OWA-60U-54
Output rating	28 Vdc, 2,2 A	30 Vdc, 2 A	36 Vdc, 1,67 A	42 Vdc, 1,5 A	48 Vdc, 1,25 A	54 Vdc, 1,12 A

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7	Degrees of protection against access to hazardous parts indicated by the additional letter		N/A
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11	General test requirements		Pass
12	Test for protection against access to hazardous parts indicated by the first characteristic numeral		Pass
13	Test for protection against solid foreign objects indicated by the first characteristic numeral		Pass
14	Test for protection against water indicated by the second characteristic numeral		Pass
15	Test for protection against access to hazardous parts indicated by the additional letter		N/A

**PHOTOS:**



Overview with potting compound



Overview with potting compound

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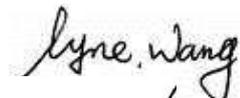
Trusting to have informed you sufficiently, we remain,

With best regards

DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch

**Engineer name** : Lyne Wang

**Engineer signature** :



**Reviewed by** : Among Chen

**Reviewer signature** :

