

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50098742

Blatt *Page*
0001

Ihr Zeichen *Client Reference*
FH/SPC-608052-app

Unser Zeichen *Our Reference*
ZTW1-YFR- 10018837 001

Ausstellungsdatum
29.12.2006

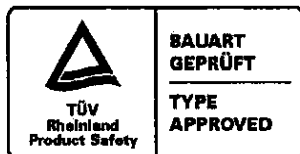
Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Rltech Inc.
4F., No. 156, Chingmei St.
Wen Shan Ward
Taipei 116
Taiwan

Fertigungsstätte *Manufacturing Plant*
Ultra Level Tech. Co., Ltd.
4F. No.2, Lane 235, Bau-Chiau Road
Hsin-Tien City, Taipei Hsien 231
Taiwan

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 60950-1:2001+A11



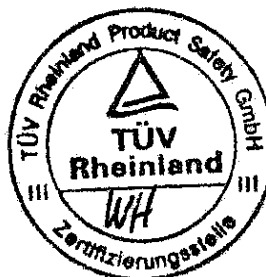
Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

Bezeichnung (Type Designation)	: RL0603x-y (RL)	10
x steht für (stands for)	: F oder(or) U	1
y steht für (stands for)	: 05, 09, 12, 15, 18, 24, 28, 36, 48 oder(or) 54	1
Nennspannung (Rated Voltage)	: AC 100-120/200-240V, 50/60Hz	
Nennstrom (Rated Current)	: 6/3A	
max. Umgebungstemperatur (max. Ambient Temperature)	: 50°C	
Schutzklasse (Protection Class)	: I	
Verschmutzungsgrad (Pollution Degree)	: 2	

Fortsetzung Blatt (continued on page) 02



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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. W. Hsu

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50098742

Blatt *Page*
0003

Ihr Zeichen *Client Reference*
FH/SPC-608052-app

Unser Zeichen *Our Reference*
ZTW1-YFR- 10018837 001

Ausstellungsdatum
29.12.2006

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Rltech Inc.
4F., No. 156, Chingmei St.
Wen Shan Ward
Taipei 116
Taiwan

Fertigungsstätte *Manufacturing Plant*

Ultra Level Tech. Co., Ltd.
4F. No.2, Lane 235, Bau-Chiau Road
Hsin-Tien City, Taipei Hsien 231
Taiwan

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 60950-1:2001+A11



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

wie Blatt (as page) 01

Ergänzung (Addition)

Bezeichnung	: 1) RL0603Dx-z (RL)	1
(Type Designation)	2) RL0603DU-0512A (RL)	1
x steht für	: F oder (or) U	1
(stands for)		
y steht für	: 0312, 0324, 0512, 0524, 0548	1
(stands for)	oder (or) 1224	
Nennspannung	: AC 100-120/200-240V, 50/60Hz	
(Rated Voltage)		
Nennstrom	: 1) 6/3A	
(Rated Current)	2) 3/1.5A	
Ausgang	: siehe Aufbau-Übersicht	
(Output)	(see constructional dataform)	
max. Umgebungstemperatur	: 1) 50°C	
(max. Ambient Temperature)	2) 74°C	



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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. W. Hsu

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50098742

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0010

Ihr Zeichen *Client Reference*
238044999

Unser Zeichen *Our Reference*
ZTW1-RNK- 10018837 014

Ausstellungsdatum
19.01.2021

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Ultra Level Tech. Co., Ltd.
4F. No.2, Lane 235, Bau-Chiau Road
Hsin-Tien Dist., New Taipei City
Taiwan, R.O.C. 231

Fertigungsstätte *Manufacturing Plant*

Ultra Level Tech. Co., Ltd.
4F. No.2, Lane 235, Bau-Chiau Road
Hsin-Tien Dist., New Taipei City
Taiwan, R.O.C. 231

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

Wie Blatt (As Page) 01

Änderung
(Change)

Prüfgrundlage : siehe oben
(Test Requirement) (see above)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle



Dipl.-Ing. F. Stölzel

UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 2nd Ed, 2014-12-01 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1-14, 2nd Ed (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Component Recognition
CCN:	QQJQ2, QQJQ8 (Power Supplies for Use in Audio/Video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	Switching Power Supply
Model:	RL0603x-y (x = F, U or E; y = 05, 09, 12, 15, 18, 24, 28, 36, 48 or 54), RL0603Dx-z (x = F, U or E; z = 0312, 0324, 0512, 0524, 0536, 0548 or 1224), and RL0603DU-0512A
Rating:	See Enclosure Id. 07-01 for details.
Applicant Name and Address:	ULTRA LEVEL TECH CO LTD 4TH FL 2 LANE 235 BAU-CHIAU RD HSIN-TIEN DISTRICT NEW TAIPEI 231 TAIWAN TAIWAN

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared By: Elicia M. Sosa / Project Handler Reviewed By: David G. Feusier / Reviewer



Ref. Certif. No.

DK-77075-M3-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Switching Power Supply

Name and address of the applicant

Ultra Level Tech. Co., Ltd.
4F, No. 2, Lane 235, Bau-Chiau Road, Hsin-Tien Dist., New Taipei City, 231
Taiwan

Name and address of the manufacturer

Ultra Level Tech. Co., Ltd.
4F, No. 2, Lane 235, Bau-Chiau Road, Hsin-Tien Dist., New Taipei City, 231
Taiwan

Name and address of the factory

Ultra Level Tech. Co., Ltd.
4F, No. 2, Lane 235, Bau-Chiau Road, Hsin-Tien Dist., New Taipei City, 231
Taiwan

Note: When more than one factory, please report on page 2

Ratings and principal characteristics

☐ Additional Information on page 2
For model RL0603x-05:
I/P: 100-120/200-240Vac, 50/60Hz, 6/3A
O/P: 2-5Vdc
See test report for details

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

RL0603DU-0512A, RL0603x-y, RL0603Dx-z
☒ Additional Information on page 2

Additional information (if necessary may also be reported on page 2)

Additionally evaluated to:
EN 62368-1:2014, EN 62368-1:2014/A11:2017
National Difference specified in the CB Test Report.
The report was revised to include technical modifications.
☒ Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 62368-1:2014

As shown in the Test Report Ref. No. which forms part of this Certificate

2203001-2-CB-M3 issued on 2022-03-11

This CB Test Certificate is issued by the National Certification Body



- ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2022-03-23

Original Issue Date: 2018-10-04

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-77075-M3-UL

Additional Model Detail(s):

RL0603x-y, (x = E, F or U, y = 05, 09, 12, 15, 18, 24, 28, 36, 48 or 54)

RL0603Dx-z, (x = E, F or U, z = 0312, 0324, 0512, 0524, 0536, 0548 or 1224)

Summary of Modifications:

Update Summary of compliance with National Differences.

Additional information (if necessary)



- ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2022-03-23

Original Issue Date: 2018-10-04

Signature:

Jan-Erik Storgaard



Test Report issued under the responsibility of:



TEST REPORT

IEC 62368-1

Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report Number : 1805002-CB

Date of issue : 2018-10-01

Total number of pages : 97

Applicant's name : Ultra Level Tech. Co., Ltd.

Address : 4F, No. 2, Lane 235, Bau-Chiau Road, Hsin-Tien Dist.,
New Taipei City, 231 Taiwan

Test specification:

Standard : IEC 62368-1:2014 (Second Edition)

Test procedure : CB Scheme

Non-standard test method : N/A

Test Report Form No. : IEC62368_1B

Test Report Form(s) Originator..... : UL(US)

Master TRF : 2014-03

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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test Item description	Switching Power Supply	
Trade Mark		
Manufacturer	Same as Applicant	
Model/Type reference	RL0603x-y (x = F, U or E; y = 05, 09, 12, 15, 18, 24, 28, 36, 48 or 54), RL0603Dx-z (x = F, U or E; z = 0312, 0324, 0512, 0524, 0536, 0548 or 1224), and RL0603DU-0512A	
Ratings	See Enclosure ID. 7-02 for details.	
Testing procedure and testing location:		
<input checked="" type="checkbox"/> CB Testing Laboratory:		
Testing location/ address	Superior Product Consulting, Inc (SPC) / 3rd Fl, 10 Alley 6, Lane 235 Pao Chiao Rd Hsin-Tien Chinese Taipei	
<input type="checkbox"/> Associated CB Testing Laboratory:		
Testing location/ address		
Tested by (name + signature)	Cus Chen Project Handler	
Approved by (name + signature)	Tim Lu Reviewer	
<input type="checkbox"/> Testing procedure: TMP/CTF Stage 1		
Testing location/ address		
Tested by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/> Testing procedure: WMT/CTF Stage 2		
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/> Testing procedure: SMT/CTF Stage 3 or 4		
Testing location/ address		
Tested by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		

List of Attachments (including a total number of pages in each attachment):

Attachment 1 (9 pages) – EUROPEAN GROUP DIFFERENCES

Attachment 2 (17 pages) – NATIONAL DIFFERENCES.

Attachment 3 (45 pages) – Enclosures of equipment photos and specifications.

Summary of testing:

Model RL0603F-05

Condition A +5Vdc/20A

Condition B +5Vdc/40A

Model RL0603F-09

Condition A +10Vdc/13.5A

Condition B +10Vdc/25A

Model RL0603F-24

Condition A +21Vdc/6.43A

Condition B +26Vdc/5.19A

Condition C +21Vdc/11.9A

Condition D +26Vdc/9.61A

Model RL0603F-54

Condition A +51Vdc/2.65A

Condition B +60Vdc/2.25A

Condition C +51Vdc/4.9A

Condition D +60Vdc/4.16A

Model RL0603DU-0312

Condition A +3.3Vdc/12A and +12Vdc/5.03A

Condition B +3.3Vdc/4.85A and +12Vdc/7A

Model RL0603DF-0312

Condition C +3.3Vdc/24A and +12Vdc/10.07A

Condition D +3.3Vdc/16.97A, +12Vdc/12A

Model RL0603DU-0548,

Condition A +5Vdc/12A and +48Vdc/0.83A

Condition B +5Vdc/0.8A and +48Vdc/2A

Model RL0603DF-0548

Condition C +5Vdc/24A and +48Vdc/1.67A

Condition D +5Vdc/11.2A and +48Vdc/3A

Model RL0603DU-1224

Condition A +12Vdc/7A and +24Vdc/1.92A

Condition B +12Vdc/2.83A and +24Vdc/4A

Model RL0603DF-1224

Condition C +12Vdc/12A and +24Vdc/4.42A

Condition D +12Vdc/8.83A and +24Vdc/6A

Model RL0603DU-0512A
Condition +5Vdc/0.02A and +12Vdc/6A

Model RL0603Dx-0536
Maximum Normal Load: +5Vdc/4A and +36Vdc/3.75A

DC Fan (Optional) (for Models RL0603F-y and RL0603DF-y): Delta Electronics Inc, Type EFB0612LA, 12.01 CFM

DC Fan (for Models suffix x = E): NMB (Minebea Co., Ltd.), Type 1604KL-04010KA-12N-AA, 6 CFM.

Tests performed (name of test and test clause):

* Stress Relief (4.4.4.7, Annex T.8)
*Classification Of Electrical Energy Sources (5.2, 5.7)
*Temperature Tests (5.4.1.4, 6.3.2, 9.0, B.2.6)
*Determination of Working Voltage (5.4.1.8)
Ball Pressure (5.4.1.10.3)
*Clearance and Creepage Distance Measurement (5.4.2, 5.4.3, T.2)
*Separable Thin Sheet Material (5.4.4.6.2)
*Humidity Conditioning (5.4.8)
*Electric Strength (5.4.9)
*Safeguards Against Capacitor Discharge After Disconnection Of A Connector (5.5.2.2)
*Resistance Of The Protective Bonding System (5.6.6.2)
*Input Current (B.2.5)
*Simulated Abnormal Operating Conditions (B.3)
*Simulated Single Fault Conditions (B.4)
For the permanence of Markings (F.3.10)
*Transformer Overloaded Test (G.5.3.3)

Testing location:

The tests marked with "*" were conducted at Superior Product Consulting, Inc (SPC) / 3rd Fl, 10 Alley 6, Lane 235 Pao Chiao Rd Hsin-Tien Chinese Taipei during this investigation based on IEC 62368-1, except for the tests from original CB Test Report of IEC 60950-1 listed on pages 12 in GPI.

Summary of compliance with National Differences:

List of countries addressed

Summary of compliance with National Differences of IEC 62368-1:

EU group differences, Australia, Canada, Denmark, New Zealand and United States

CENELEC member countries (EU group differences): Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom

- ☒ The product fulfils the requirements of AS/NZS 62368.1:2018.
- ☒ The product fulfils the requirements of CAN/CSA C22.2 No. 62368-1-14.
- ☒ The product fulfils the requirements of EN 62368-1:2014 + A11:2017
- ☒ The product fulfils the requirements of UL 62368-1, Second Edition.

VERIFICATION OF COMPLIANCE

Issue Date: August 08, 2022

Applicant: ULTRA LEVEL TECH CO., LTD.

Address: 4F, No.2, Lane 235, Bau-Chiau Road, Hsin-Tien District, New Taipei City 231, Taiwan, R.O.C..

Manufacturer: ULTRA LEVEL TECH CO., LTD.

Address: 4F, No.2, Lane 235, Bau-Chiau Road, Hsin-Tien District, New Taipei City 231, Taiwan, R.O.C..

Product: Switching Power Supply

Brand Name/Trade Mark: N/A

Model/Type: RL0603x-y, x=E,F,U; y=05, 09, 12, 15, 18, 24, 28, 36, 48, 54 ;
RL0603Dx-z, x=E,F,U; z=0312,0324, 0512, 0524, 0548, 1224 ;
RL0603DU-0512A; RL0603DU-0536

Added Model(s): N/A

Applicable Standards: **EN 55032: 2015+A11: 2020**
EN 61000-3-2: 2014, EN 61000-3-3: 2013
EN 55035: 2017+A11: 2020
IEC 61000-4-2: 2008, IEC 61000-4-3: 2020
IEC 61000-4-4: 2012, IEC 61000-4-5: 2014+A1:2017
IEC 61000-4-6: 2013+C1: 2015, IEC 61000-4-8: 2009
IEC 61000-4-11: 2020+C1:2020

Test Laboratory: Compliance Certification Services Inc.
Tainan Lab
No.8, Jiucengling, Xinhua Dist., Tainan City, Taiwan

Test Report No. : TMTN2206000787NE, dated on August 08, 2022

Conclusion:

Based upon a review of the Test Report(s), the tested sample of the product mentioned above is deemed to comply with the requirements of the above standards.

Note: This verification is only valid for the product and configuration described and in conjunction with the test report as detailed above.

Authorised Signatory:

Compliance Certification Services Inc.
Jeter Wu
Manager

FM-023A-R02