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Report Reference # E257331-A4-UL

UL TEST REPORT AND PROCEDURE

Standard: Certification Type: CCN:	ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)(Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance) CAN/CSA-C22.2 No. 60601-1 (2008) (Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance) Component Recognition QQHM2, QQHM8 (Power Supplies, Medical and Dental)
Product:	Switching Power Supply
Model:	RL0402x-yz where $x = E$ or U; $y = 03$ or 05 or 12 or 18 or 24 or 36 or 48; and $z = I$ or blank
	Models where x=U: RL0402U-03z RL0402U-05z RL0402U-12z RL0402U-18z RL0402U-24z RL0402U-36z RL0402U-48z
	Models with x=E: RL0402E-03z RL0402E-05z RL0402E-12z RL0402E-18z RL0402E-24z RL0402E-36z RL0402E-48z
	RL0402Dx-y where x = E or U; y = 0312 or 0324 or 0512 or 0524 or 1224
	Models with x=U: RL0402DU-0312 RL0402DU-0324 RL0402DU-0512 RL0402DU-0524 RL0402DU-1224 RL0402DU-2448
Poting	Models with x=E: RL0402DE-0312 RL0402DE-0324 RL0402DE-0512 RL0402DE-0524 RL0402DE-1224
Rating:	Input: 100-240 V ac, 47-63 Hz, 6.35-3.25 A Output ratings are as follows:

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Models where x=U: 2-3.3 Vdc, 60 A, 198 W max. (with fan) 2-3.3 Vdc, 45 A, 148.5 W max (without fan)
5-6Vdc, 60 A, 300 W max. (with fan) 5-6Vdc, 45 A, 225 W max (without fan)
12-15 Vdc, 33.34 A, 400 W max (with fan) 12-15Vdc, 20.84 A, 250 W max. (without fan)
16-21Vdc, 25 A, 400 W max. (with fan) 16-21Vdc, 15.63 A, 250 W max. (without fan)
22-30Vdc, 18.19 A, 400 W max. (with fan) 22-30Vdc, 11.37 A, 250 W max. (without fan)
31-41Vdc, 12.9 A, 400 W max. (with fan) 31-41Vdc, 8.07 A, 250 W max. (Without fan)
42-58Vdc, 9.53 A, 400 W max. (with fan) 42-58Vdc, 5.96 A, 250 W max. (without fan)
Models with x=E: 2-3.3Vdc, 60 A, 198 W max.
5-6Vdc, 60 A, 300 W max.
12-15Vdc, 33.34 A, 400 W max.
16-21Vdc, 25 A, 400 W max.
22-30Vdc, 18.19 A, 400 W max.
31-41Vdc, 12.9 A, 400 W max.
42-58 Vdc, 9.53 A, 400 W max.
Models with x=U: V1:3.3Vdc, 40 A; V2:12V, 25A, 300 W max. (with fan) V1:3.3Vdc, 30A;V2:12V, 16.7 A, 200W max. (without fan)
V1:3.3Vdc, 40 A; V2: 24V, 12.5A, 300 W max. (with fan) V1:3.3Vdc, 30A;V2: 24V, 8.34A, 200W max. (without fan)
V1:5Vdc, 40 A; V2: 12V, 25A, 300 W max. (with fan) V1:5Vdc, 30A;V2: 12V, 16.7A, 200W max. (without fan)
V1:5Vdc, 40 A; V2: 24V, 12.5A, 300 W max. (with fan) V1:5Vdc, 30A;V2: 24V, 8.35A, 200W max. (without fan)
V1:12Vdc, 25 A; V2: 24V, 12.5A, 400 W max. (with fan)

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		V1:12Vdc, 16.6	7A;V2: 24V, 18.34A, 250W max.	(without fan)
		V1:24Vdc, 12.5 V1:24Vdc, 8.33	A; V2: 48V, 6.25 A, 400 W max. A;V2: 48V, 4.17 A, 250W max. ((with fan) without fan)
		Models with x=I V1:3.3Vdc, 40 /	<u>=</u> : A; V2: 12V, 25A, 300 W max.	
		V1:3.3Vdc, 40 /	A; V2: 24V, 12.5A, 300 W max.	
		V1:5Vdc, 40 A;	V2: 12V, 25A, 300 W max.	
		V1:5Vdc, 40 A;	V2: 24V, 12.5A, 300 W max.	
		V1:12Vdc, 25 A	; V2: 24V, 12.5A, 400 W max.	
Applicant Na	me and Address:	ULTRA LEVEL 4TH FL 2 LANE HSIN-TIEN DIS NEW TAIPEI 231 TAIWAN	TECH CO LTD 235 BAU-CHIAU RD TRICT	

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordan ce 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 acc ordance 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 R eport 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: Jonathan Chen

Reviewed by: Conga Chen

Certific	ate	A
		TÜVRheinland
Certificate no.	TA 50210740 01	
Dicense Holder: Rltech Inc. 4F., No. 156, Ching Ven Shan Ward Faipei 116 Faiwan	Manufacturing Plant: Ultra Level Tec mei St. 4F. No.2, Lane Hsin-Tien City, Taiwan	ch. Co., Ltd. 235, Bau-Chiau Road Taipei Hsien 231
Fost report no . 7TW1 CCL	10022470 001 Client Deferences EU/	CDC 1105024 am
Tested to: IEC 606	01-1:2005	SPC-1105034-app
Type Designation stands for stands for stands for stands for lated Voltage lated Current	<pre>Hing Power Suppry) : RL0402x-yz (RL) : E or U : 03, 05, 12, 18, 24, 36 or : blank or I : AC 100-240V, 47-63Hz : 6.35A-3.25A : Goo googtrugtional data for</pre>	10 1 2 48 1 1
output Voltage output Current ax. Output Power ax. Ambient Temper	: see constructional datato : see constructional datafo : see constructional datafo ature: 50°C	orm orm orm
rotection Class		
'his certificate is	valid for maximum 5 years.	There are a second of the second of the
Appendix: 1		13

Certifi	cate		Δ
			TÜVRheinland
Certificate no.	TA 50210740	02	
License Holder: Rltech Inc. 4F., No. 156, Chin Wen Shan Ward Taipei 116 Taiwan	gmei St.	Manufacturing Plant: Ultra Level Tech. Co., 4F. No.2, Lane 235, Ba Hsin-Tien City, Taipei Taiwan	Ltd. u-Chiau Road Hsien 231
Test report no.: ZTW1-SC	L 10032470 001	Client Reference: EH/SPC-1105	5034-app
C ertified Product: (Swit as page 01 Addition	ching Power Sup	oply)	License Fee - Units
Certified Product: (Swit as page 01 Addition Type Designation	ching Power Sup :1) RL040 2) RL040	Dply) D2Dx-y (RL) D2DU-2448 (RL)	License Fee - Units 1 1
Certified Product: (Swit as page 01 Addition Type Designation & stands for y stands for	ching Power Sup :1) RL040 2) RL040 : E or U : 0312, 0	Dply) D2Dx-y (RL) D2DU-2448 (RL) D324, 0512, 0524 or 1224	License Fee - Units 1 1 1 1 1 1
Certified Product: (Swit as page 01 Addition Type Designation x stands for y stands for This certificate i	ching Power Sup :1) RL040 2) RL040 : E or U : 0312, 0 s valid for max	D2Dx-y (RL) D2Dv-y (RL) D2DU-2448 (RL) D324, 0512, 0524 or 1224 cimum 5 years.	License Fee - Units
Certified Product: (Swit as page 01 Addition Type Designation x stands for y stands for This certificate i Appendix: 1	ching Power Sup :1) RL040 2) RL040 : E or U : 0312, 0 s valid for max	D2Dx-y (RL) D2DU-2448 (RL) D324, 0512, 0524 or 1224 cimum 5 years.	License Fee - Units 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

10/020 04.08
 TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

Certificate	TÜVRheinland
Certificate no. TA 50210740 06	
License Holder: Ultra Level Tech. Co., Ltd. 4F. No.2, Lane 235, Bau-Chiau Road Hsin-Tien Dist., New Taipei City 231 Taiwan	Manufacturing Plant: Ultra Level Tech. Co., Ltd. 4F. No.2, Lane 235, Bau-Chiau Road Hsin-Tien Dist., New Taipei City 231 Taiwan
Test report no.: ZTW1-LinPr 10032470 006 Tested to: IEC 60601-1:2005+A1	Client Reference: EH/SPC-1612019-app
Certified Product: (Switching Power Suppl as page 01 Change Test Requirement : see above	y) License Fee - Units
This certificate is valid for maxim	num 5 vears.
Appendix: 1	
Licensed Test mark: TÜV Rheinland Taiwa EN 60601-1 IEC 60601-1 UVRheinland CERTIFIED WWW.tuv.com ID 0008000000	an Ltd. Signature DiplIng. W. Hsu
TÜV Rheinland Taiwan Ltd., 11fl., No. 758, Sec. 4, Bade Road, Songshan Dist., Taip	bei City 105, Taiwan, R.O.C Tel (02) 2172-7000 - Fax (02) 2528-0018



DE 2-021901

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATES FOR ELECTRICAL EQUIPMENT CERTIFICATS D'ESSAIS DES EQUIPEMENTS (IECEE) CB SCHEME ELECTRIQUES (IECEE) METHODE OC **CB TEST CERTIFICATE** CERTIFICAT D'ESSAI OC Product Switching Power Supply Produit Ultra Level Tech. Co., Ltd. 4F. No.2, Lane 235, Bau-Chiau Road Hsin-Tien Dist., New Taipei City, Taiwan 231 Name and address of the applicant Nom et adresse du demandeur 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, Taiwan 231 Nom et adresse du fabricant Ultra Level Tech. Co., Ltd. 4F. No.2, Lane 235, Bau-Chiau Road Hsin-Tien Dist., New Taipei City, Taiwan 231 Name and address of the factory Nom et adresse de l'usine Note: When more than one factory, please report on page 2 Note: Lorsque il y plus d'une usine, veuillez utiliser la 2 mo page AC 100-240V; 47-63Hz; 6.35-3.25A; Class I; Ratings and principal characteristics for output ratings refer to test report page 10 Valeurs nominales et caractéristiques principales RI Trade mark (if any) Marque de fabrique (si elle existe) RL0402DU-2448 RL0402x-yz (x=E or U; y=03,05,12,18,24,36,48; z=blank or I) RL0402Dx-y (x=E or U; y=0312,0324,0512,0524,1224); in the Model/type Ref. Ref. de type model names, x denotes the cooling options and metal chassis construction, y denotes o/p rating, z for marketing purpose Models differ in model name, output ratings, construction of Additional information (if necessary may also be the main transformer T1 and the optionally used appliance reported on page 2) inlet, terminal blocks, connectors or inlet; for details see Les Information complémentaire (si nécessaire, test report peuvent être indiqués sur la 2^{ème} page) **PUBLICATION EDITION** IEC 60601-1:2005 + A1 A sample of the product was tested and found for national deviations see test report to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la 50070027 001 As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue une partie de ce Certificat This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification Availand LGA Program **TÜV Rheinland LGA Products GmbH** Tillystraße 2 · 90431 Nürnberg, Germany Phone + 49 221 806-1371 Fax + 49 221 806-3935 Mail: cert-validity@de.tuv.com R TÜVRheinland **TUV**Rheinland Web: www.tuv.com ĺΠ 111 Tifizierungsstell Dipl.-Ing. W. Hsu 01.06.2017 Date: Signature:



VERIFICATION OF COMPLIANCE

Issue Date:	July 21,2021
Applicant:	ULTRA LEVEL TECH. CO., LTD.
Address:	4F, No. 2, Lane 235, Bau-Chiau Rd., Hsin-Tien Dist., New Taipei City,
	Taiwan.
Manufacturer:	ULTRA LEVEL TECH. CO., LTD.
Address:	4F, No. 2, Lane 235, Bau-Chiau Rd., Hsin-Tien Dist., New Taipei City,
	Taiwan.
Contact Information:	Web: <u>www.ultralevel.com.tw</u>
	TEL#: 886-2-29180118
	E-mail#: fiona@ultralevel.com.tw
Product:	Switching Power Supply
Brand Name/Trade Mark:	N/A
Model/Type:	1) RL0402x-yz (x= E,U ; y=03, 05, 12, 18, 24, 36, 48 ; z=blank or I)
	2) RL0402Dx-y (x= E,U ; y=0312, 0324, 0512, 0524, 1224, 2448)
Added Model(s):	N/A
Applicable Standards	EN 60601-1-2: 2015+A1: 2021
Applicable Standards.	EN 55011: 2016+A1: 2017+A11: 2020 (Class B)
	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014
	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019
	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 IEC 61000-4-2: 2008
	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 IEC 61000-4-2: 2008 IEC 61000-4-3: 2020
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	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 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
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	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 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:	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 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 Compliance Certification Services Inc.
Test Laboratory:	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 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 Compliance Certification Services Inc. Tainan Lab
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Test Laboratory: Test Report No. :	EN 55011: 2016+A1: 2017+A11: 2020 (Class B) EN 61000-3-2: 2014 EN 61000-3-3: 2013+A1: 2019 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 Compliance Certification Services Inc. Tainan Lab No.8, Jiucengling, Xinhua Dist., Tainan City, Taiwan T210505N01-E, dated on July 21, 2021

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-R01

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