

NOTICE OF COMPLETION
AND
AUTHORIZATION TO APPLY THE UL MARK



2014/01/02

Qbest Inc
Mr. KEN WANG
1st Fl 15 Aly 22 Ln 157
Sec 5 Fuu An Rd
Tainan 709, Taiwan

Our Reference: File E464358, Vol. X1 Project Number 4786083308
Your Reference: T130924N01
Project Scope: UL/CUL Full Investigation For Switching Power Supply, model PRL1201x-y (x = D or blank, y = 05, 10, 12, 15, 18, 24, 28, 36, 48, 54, 0512, 0524 or 1224) ("x" Denotes output type, blank for single output, "D" for dual output, "y" denotes output voltage) (Report Reference No. E464358-A1)

Dear Mr. KEN WANG:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E464358, Vol. X1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site:
<http://www.ul.com/EAResponsibilities>

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

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Herman Wu
+886 2 28967790
Engineer
Herman.Wu@ul.com

Reviewed by:

William R. Carney
847/664-1088
Chief Engineer Director I
William.R.Carney@ul.com

CC: ,

NWT9C78-41D857

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Component Recognition
CCN:	QQGQ2, QQGQ8 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	Switching Power Supply
Model:	PRL1201x-y (x = D or blank, y = 05, 10, 12, 15, 18, 24, 28, 36, 48, 54, 0512, 0524 or 1224) ("x" Denotes output type, blank for single output, "D" for dual output, "y" denotes output voltage)
Rating:	Input: 100-240 Vac, 47-63 Hz, 6 A Output: See Enclosure ID 7-01 for details
Applicant Name and Address:	QBEST INC 1ST FL 15 ALY 22 LN 157 SEC 5 FUU AN RD TAINAN 709 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: Herman Wu

Reviewed by: Henry Ho

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

- The open frame power supply is incorporating power supply boards with electronic components.
- Two input terminal types in this equipment, see Enclosure ID 3-15 and appended table 1.5.1 for material details.

Model Differences

- Models PRL1201x-y (x = D or blank, y = 05, 10, 12, 15, 18, 24, 28, 36, 48, 54, 0512, 0524 or 1224) ("x" Denotes output type, blank for single output, "D" for dual output, "y" denotes output voltage) are similar to each other except for output rating, output type and some component differences.
- See Enclosure ID 7-01 for output rating details.
- See Enclosure ID 7-02 for component difference details.

Technical Considerations

- Equipment mobility : for building-in
- Connection to the mains : To be determined in the end product
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class I (earthed)
- Considered current rating of protective device as part of the building installation (A) : 20 A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000 m
- Altitude of test laboratory (m) : less than 2000 meters
- Mass of equipment (kg) : Approx. 1.2kg

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50 degree C
- The means of connection to the mains supply is: To be determined in the end product
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: To be determined in the end product
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- The following Production-Line tests are conducted for this product: Earthing Continuity, Electric Strength
- The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-SELV: 300 Vrms, 440 Vpk of T3., Primary-SELV: 221 Vrms, 424 Vpk of T2., Primary-SELV: 262 Vrms, 460 Vpk of T1.
- The following secondary output circuits are SELV: All outputs
- The following secondary output circuits are at hazardous energy levels: All outputs
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The maximum investigated branch circuit rating is: 20 A
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required
- An investigation of the protective bonding terminals has: Been conducted
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class A (105°C): Transformer (T1, T3) (Class F), Transformer (T2) (Class B)
- The following end-product enclosures are required: Electrical, Fire, Mechanical,
- The equipment is suitable for direct connection to: To be determined in the end product

Additional Information

- The tests are based on +10% and -10% tolerance and considered in compliance with +6% and -10% tolerance.

Additional Standards

The product fulfills the requirements of: N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number

Power rating - Model	Model Number
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.

Special Instructions to UL Representative

"Inspect the transformer(s) listed in Production-Line Testing Requirements per AA1.1- (C). When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in Production-Line Testing Requirements be conducted at the component manufacturer. "

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All models	Transformer (T1, T2, T3)	--	Primary to secondary	300 0	4242	1

Earthing Continuity Test Exemptions - This test is not required for the following models:

--

Electric Strength Test Exemptions - This test is not required for the following models:

no exemptions

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
--	--	--	--	--	--

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50271904

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0001

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum	Date of Issue
T130924N01/CCS	ZTW1-KKC- 10044276 001	10.01.2014	(day/mo/yr)

Genehmigungsinhaber License Holder
QBEST INC.
1F, NO. 15, ALLEY 22,
LANE 157, SEC. 5, FUU AN ROAD,
TAINAN CITY 709
Taiwan

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

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
EN 60950-1:2006+A11+A1+A12



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

Bezeichnung : PRL1201x-y (RL) 10
(Type Designation)
x steht für (stands for) : D oder (or) freibleibend (blank)
y steht für (stands for) : 05, 10, 12, 15, 18, 24, 28, 36,
48, 54, 0512, 0524 oder (or) 1224
Nennspannung (Rated Voltage): AC 100-240V, 47-63Hz
Nennstrom (Rated Current) : 6A MAX
Ausgang : siehe Aufbau-Übersicht
(Output) (see constructional dataform)
max. Umgebungstemperatur (max. Ambient Temperature): 50°C
Schutzklasse (Protection Class) : I
Verschmutzungsgrad (Pollution Degree) : 2
Vermerke : Primär- und Sekundärkreise sind gemäß Verfahren
1 und 2 nach Abschnitt 2.9.4 getrennt. Der Einbau muß gemäß
der zugehörigen Einbauanweisung erfolgen. (Remarks : Primary
and secondary circuits are separated according to method
1 and 2 of clause 2.9.4. The installation has to be carried
out according to the attached installation instruction.)

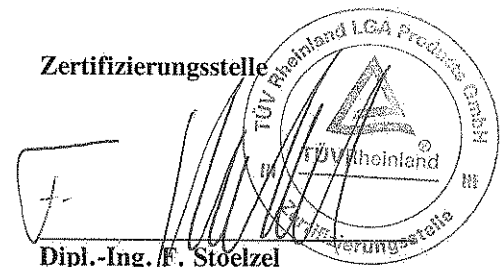
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ANLAGE (Appendix): 1

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. Stözel

Report No. 10044276 001 License No. R 50271904 Appendix No. 1

Total pages: 13

31-Dec-13

License Holder: QBEST INC.


Address: 1F, NO.15, ALLEY 22, LANE 157, SEC.5, FUU AN ROAD, TAINAN CITY, TAIWAN, R.O.C.

Factory : ULTRA LEVEL TECH CO.,LTD.

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

Type of appliance: Switching Power Supply

Type designation:

PRL1201x-y (Trade-mark : )

(x= D or blank, y=05, 10, 12, 15, 18, 24, 28, 36, 48, 54, 0512, 0524 or 1224)

('x' Denotes output type, blank for single output, "D" for dual output., "y" denotes output voltage)

Input Rating: I/P : AC 100-240V, 47-63Hz, 6A

Protection Class: Class I

Ambient temperature: +50°C

Supply connection: Terminal block or AC Connector

Comments: Weigh: Approx. 1.2kg

Model name	Output Rating		
	Voltage (Vdc)	Max. Current (A)	Max. Watts (W)
PRL1201-05	3 – 5	60	300
PRL1201-10	6 – 10	40	400
PRL1201-12	11 – 13	36.36	400
PRL1201-15	13.5 – 16	29.62	400
PRL1201-18	17 – 21	23.52	400
PRL1201-24	22 – 25	18.18	400
PRL1201-28	26 – 30	15.38	400
PRL1201-36	31 – 40	12.90	400
PRL1201-48	41– 50	9.75	400
PRL1201-54	51– 60	7.84	400
PRL1201D-0512	+5V	35	300
	+12V	16.67	

TÜV Rheinland Group

QBEST INC.

December 31, 2013


(name of authorized person)

JAN 10 2014

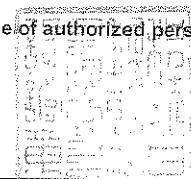
Date Name Signature



Date Name



Stamp & Signature of licenseholder





Ref. Certif. No.

JPTUV-054723

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Switching Power Supply

Name and address of the applicant
Nom et adresse du demandeurQBEST INC.
1F, NO. 15, ALLEY 22,
LANE 157, SEC. 5, FUU AN ROAD, TAINAN CITY 709 TaiwanName and address of the manufacturer
Nom et adresse du fabricantQBEST INC.
1F, NO. 15, ALLEY 22,
LANE 157, SEC. 5, FUU AN ROAD, TAINAN CITY 709 TaiwanName and address of the factory
Nom et adresse de l'usineUltra Level Tech. Co., Ltd.
4F, No.2, Lane 235, Bau-Chiau Road
Hsin-Tien Dist., New Taipei City, 231 TaiwanRatings and principal characteristics
Valeurs nominales et caractéristiques principalesInput : AC 100-240V; 47-63Hz; 6A MAX; Class I
Output: refer to the test reportTrademark (if any)
Marque de fabrique (si elle existe)

RL

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de typePRL1201x-y (x = D or blank; y = 05, 10, 12, 15, 18, 24, 28,
36, 48, 54, 0512, 0524 or 1224)Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,
peuvent être indiqués sur la 2^{ème} page)

For model differences, refer to the test report.

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à laIEC 60950-1:2005 + A1
National differences see test reportAs 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 partie de ce Certificat

11034934 001

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com
Dipl.-Ing. R. Stoelzel


Date: 09.01.2014

Signature:



Test Report issued under the responsibility of:



TEST REPORT IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements	
Report Number.....	11034934 001
Date of issue.....	January 2, 2014
Total number of pages.....	94
CB Testing Laboratory	TÜV Rheinland Taiwan Ltd., Taichung Laboratory
Address.....	No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan
Applicant's name	QBEST INC.
Address.....	1F, NO.15, ALLEY 22, LANE 157, SEC.5, FUU AN ROAD, TAINAN CITY 709 Taiwan
Manufacturer's name	Same as applicant.
Address.....	Same as applicant.
Test specification:	
Standard	IEC 60950-1:2005 (Second Edition) + Am 1:2009
Test procedure.....	CB Scheme
Non-standard test method.....	N/A
Test Report Form No.	IEC60950_1C
Test Report Form(s) Originator	SGS Fimko Ltd
Master TRF.....	Dated 2012-08
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Test item description	Switching Power Supply
Trade Mark	
Manufacturer.....	Same as applicant
Model/Type reference.....	PRL1201x-y (x= D or blank, y=05, 10, 12, 15, 18, 24, 28, 36, 48, 54, 0512, 0524 or 1224)
Ratings.....	i/p: AC 100-240V, 47-63Hz, 6A MAX o/p: See page 7-8



CE EMC TEST REPORT

for

Switching Power Supply

Model : PRL1201 series; PRL1201D series

Data Applies To: Shown in annex

Brand Name :



Test Report Number:

T130924N01-E

Issued for

QBEST INC.

No.3, Aly. 22, Ln. 157, Sec. 5, Fu' an Rd., Annan Dist., Tainan City 709,
Taiwan (R.O.C.)

Issued By

Compliance Certification Services Inc.

Tainan Laboratory

No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

TEL: 886-6-580-2201

FAX: 886-6-580-2202


Issued Date : November 06, 2013



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1 TEST CERTIFICATION

Product:	Switching Power Supply	
Model:	PRL1201 series; PRL1201D series	
Data Applies To:	Shown in annex	
Brand Name:		
Applicant:	QBEST INC. No.3, Aly. 22, Ln. 157, Sec. 5, Fu' an Rd., Annan Dist., Tainan City 709, Taiwan (R.O.C.)	
Manufacturer:	ULTRA LEVEL TECH. CO., LTD. 4F, No. 2, Lane 235, Bau-Chiau Road, Hsin-Tien Dist., New Taipei City 231, Taiwan (R.O.C.)	
Tested:	September 13, 2013 ~ November 06, 2013	
Applicable Standards:	EN 55022: 2010 EN 61000-3-2: 2006+A2: 2009 EN 61000-3-3: 2008	EN 55024: 2010 IEC 61000-4-2: 2008 IEC 61000-4-3: 2010 IEC 61000-4-4: 2012 IEC 61000-4-5: 2005 IEC 61000-4-6: 2008 IEC 61000-4-8: 2009 IEC 61000-4-11: 2004

Deviation from Applicable Standard
None

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements of technical standards specified above under the EMC Directive 2004/108/EC. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Reviewed by:



Jeter Wu
Assistant Manager

Eric Huang
Assistant Section Manager