

Ultrastar C15K600 Agency Certification

Version 1.2

May 2010

 **Hitachi Global Storage Technologies**

Contents

Ultrastar 15K600

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Ref. Certif. No.

US/14795/UL

IEC SYSTEM FOR CONFORMITY TESTING AND CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Hard Disk Drive Ultrastar 15K800

Name and address of the applicant
Nom et adresse du demandeur

HITACHI GLOBAL STORAGE TECHNOLOGIES INC
5601 GREAT OAKS PKY
SAN JOSE CA 95119, USA

Name and address of the manufacturer
Nom et adresse du fabricant

HITACHI GLOBAL STORAGE TECHNOLOGIES INC
5601 GREAT OAKS PKY
SAN JOSE CA 95119, USA

Name and address of the factory
Nom et adresse de l'usine

HITACHI GLOBAL STORAGE TECHNOLOGIES
SINGAPORE PTE LTD 4 KAKI BUKIT AVE 1
#03-08 SINGAPORE 417939, SINGAPORE

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

5 Vdc, 1.1 A; 12 Vdc, 1.1 A

Trademark (if any)
Marque de fabrique (si elle existe)

HITACHI

Model / Type Ref.
Ref. de type

HUS1580xxVLYyyy, where 'xx' is a two digit number, 60, 45 or 30 and 'yyy' denotes four digit alphanumeric characters consisting of S600, S601, F400 or F401

Additional information (if necessary)
Information complémentaire (si nécessaire)

The CB Test Report comprises 4 enclosures.

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 la

PUBLICATION

IEC 60950-1 (2005) Second Edition,
Additionally evaluated to EN60950-1 (2006) with Am. 11 (2009) to include Group and National Differences for European countries; other National Differences also specified in the CB Test Report.

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 partie de ce Certificat

E240353-A6-CB-2

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



**Underwriters
Laboratories**

Underwriters Laboratories Inc. / GMA Certification Department, US
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
TEL INT* +1 847 684 3008, FAX INT* +1 847 313 3008
email: jolanta.m.wroblewska@us.ul.com

Date: Issued: 2010 March 8

Signature:

Jolanta M. Wroblewska

HITACHI

Inspire the Next

Hitachi Global Storage Technologies, Inc.
5601 Great Oaks Parkway
San Jose, CA 95119-1003 USA
Tel: 800-801-4618 Fax: 408-717-6000
www.hgst.com

CE, ICES and VCCI Declaration of Conformity

We,
Hitachi Global Storage Technologies
5601 Great Oaks Parkway
San Jose, California 95119-1003

Declare, under our sole responsibility, that the Hitachi Ultrastar 15K600-600, 15K600-450 and 15K600-300 product models

Manufactured by
Hitachi Global Storage Technologies Singapore Pte. Ltd.
#03-08, 4 Khaki Bukit Ave. 1
Singapore 417939, Singapore

Conform to the following European Directives:

1. Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.
2. Council Directive 2006/95/EC on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits.

The **CE** Declaration of conformity has been assessed for the Hitachi Ultrastar 15K600 series Hard Disk Drive model HUS1560xxVLYyyy where 'xx' is a two digit number 60, 45 or 30 and 'yyyy' is a four digit number or letter S600, S601, F400 or F401 as defined below.

HUS156060VLF400 (Fiber Channel 4 Gb/s, 5V, 12V, 600GB)
HUS156060VLF401 (Fiber Channel 4 Gb/s, 5V, 12V, 600GB)
HUS156045VLF400 (Fiber Channel 4 Gb/s, 5V, 12V, 450GB)
HUS156045VLF401 (Fiber Channel 4 Gb/s, 5V, 12V, 450GB)
HUS156030VLF400 (Fiber Channel 4 Gb/s, 5V, 12V, 300GB)
HUS156030VLF401 (Fiber Channel 4 Gb/s, 5V, 12V, 300GB)

Hitachi Global Storage Technologies

HUSI56060VLS400 (SAS 6 Gb/s, 5V, 12V, 600GB)
HUSI56060VLS401 (SAS 6 Gb/s, 5V, 12V, 600GB)
HUSI56045VLS400 (SAS 6 Gb/s, 5V, 12V, 450GB)
HUSI56045VLS401 (SAS 6 Gb/s, 5V, 12V, 450GB)
HUSI56030VLS400 (SAS 6 Gb/s, 5V, 12V, 300GB)
HUSI56030VLS401 (SAS 6 Gb/s, 5V, 12V, 300GB)

Schedule A

Conformity with Council Directive 2006/95/EC on the approximation of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits, is based on compliance with the following harmonized standards:

EN 60950-1:2001, First Edition

Schedule B

Conformity with Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility is based on compliance of the product with the following harmonized standards:

- 1: EN 55022:2006 + A1:2007 (Class A for FC, Class B for SAS)
- 2: EN 55024: 1998 +A1:2001 +A2:2003
- 3: EN 61000-3-2:2006
- 4: EN 61000-3-3:1995 +A1:2001 +A2:2005

And conform to the following Directives:

VCCI Japanese Standards of Confirmation

1. All SAS models conform to the requirements of the 2007 VCCI Class B harmonized standards of electromagnetic compatibility.
2. All FC models conform to the requirements of the 2007 VCCI Class A harmonized standards of electromagnetic compatibility.

ICES-003 Canadian Standards of Confirmation

1. All SAS hard disk drives comply with Canadian ICES-003, Issue 4, 2004 Class B standards.
2. All FC hard disk drives comply with Canadian ICES-003, Issue 4, 2004 Class A standards.



Art Muzik, Program Director

7/09/2009 8/13/2009

Date of issue Revision 1

符合性聲明書
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編 號 Number
D33373	

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司

Obligatory Applicant

地址：台北市敦化北路 167 號 5 樓(宏國大樓)

Address

電話：02-3518-1681

Telephone

商品中(英)文名稱：(中文)硬碟機

Commodity Name

(英文) HARD DISK DRIVE

商品型式(或型號)：HUS156030VLS600, HUS156030VLS601

Commodity Type (Model) HUS156045VLS600, HUS156045VLS601

HUS156060VLS600, HUS156060VLS601

符合之檢驗標準及版次：CNS 13438, 2006 (Taiwan)

Standard(s) and version

試驗報告編號：IBMR1107

Test Report Number

試驗室名稱及代號：IBM Rochester EMC Lab

Testing laboratory name and designation number

SL2-IN-E-1039

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司(簽章)

Obligatory Applicant

(Signature)



中 華 民 國 九 十 八 年 六 月 二 十 五 日

DATE

(year)

(month)

(day)

符合性聲明書
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33373	

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司

Obligatory Applicant

地址：台北市敦化北路 167 號 5 樓(宏國大樓)

Address

電話：02-3518-1681

Telephone

商品中 (英) 文名稱：(中文)硬碟機

Commodity Name

(英文) HARD DISK DRIVE

商品型式 (或型號)：HUS156030VLF400, HUS156030VLF401

Commodity Type (Model)

HUS156045VLF400, HUS156045VLF401

HUS156060VLF400, HUS156060VLF401

符合之檢驗標準及版次：CNS 13438, 2006 (Taiwan)

Standard(s) and version

試驗報告編號：IBMR1108

Test Report Number

試驗室名稱及代號：IBM Rochester EMC Lab

Testing laboratory name and designation number

SL2-IN-E-1039

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所
聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity
Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司 (簽章)

Obligatory Applicant

(Signature)



中 華 民 國 九 十 八 年 六 月 二 十 五 日

DATE

(year)

(month)

(day)

Supplier's declaration of conformity

For compliance level 1, 2 and 3 in Australia

As required under notices under

- Section 182 of the Australian Radiocommunications Act 1992



Australian Government

Australian Communications
and Media Authority

Instructions for completion

- This completed form remains with the supplier as part of the documentation required for the compliance records. Do not return this form to ACMA.

Supplier's details

Company Name (name of manufacturer, importer or agent)

NJM TECHNOLOGY SOLUTIONS PTY LTD

ACMA supplier code number

N13508

Address (address of manufacturer, importer or agent)

43 FOREST LANE

MARKWOOD

VICTORIA POSTCODE 3678

ABN, ACN or ARBN

57 099 627 266

Product details

HITACHI GLOBAL STORAGE TECHNOLOGIES ULTRASTAR 15K600
3.5 INCH 15000 RPM SAS INTERFACE HARD DISK DRIVE

MODELS COVERED: HUS156030VLS600
 HUS156045VLS600
 HUS156060VLS600
 HUS156030VLS601
 HUS156045VLS601
 HUS156060VLS601

Compliance with Radiocommunications (Electromagnetic Compatibility) Standard 2008

The above mentioned product complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. Evidence of compliance is demonstrated by test reports to the following applicable standards.

Applicable standards

EN55022:2006 + A1:2007
IEC CISPR22: 2005

EMC TEST REPORT No: IBMR1107 DATED 17TH JUNE 2009
 PREPARED BY IBM ROCHESTER EMC LAB

Declaration

I hereby declare that the product mentioned above complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. All products supplied under this declaration will be identical to the product identified above.

Signature

Name

NIGEL MATHESON

Position in Organisation

MANAGING DIRECTOR

Date

30th June 2009

Supplier's declaration of conformity

For compliance level 1, 2 and 3 in Australia

As required under notices under

- Section 182 of the Australian Radiocommunications Act 1992



Australian Government
**Australian Communications
and Media Authority**

Instructions for completion

- This completed form remains with the supplier as part of the documentation required for the compliance records. Do not return this form to ACMA.

Supplier's details

Company Name (name of manufacturer, importer or agent)

NJM TECHNOLOGY SOLUTIONS PTY LTD

ACMA supplier code number

N13508

Address (address of manufacturer, importer or agent)

43 FOREST LANE

MARKWOOD

VICTORIA POSTCODE 3878

ABN, ACN or ARBN

57 099 627 266

Product details

HITACHI GLOBAL STORAGE TECHNOLOGIES ULTRASTAR 15K600
3.5 INCH 15000 RPM FIBRE CHANNEL INTERFACE HARD DISK DRIVE

MODELS COVERED: HUS156030VLF400
 HUS156045VLF400
 HUS156080VLF400
 HUS156030VLF401
 HUS156045VLF401
 HUS156080VLF401

Compliance with Radiocommunications (Electromagnetic Compatibility) Standard 2008

The above mentioned product complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. Evidence of compliance is demonstrated by test reports to the following applicable standards.

Applicable standards

EN55022:2006 + A1:2007
IEC CISPR22: 2005

EMC TEST REPORT No: IBMR1108 DATED 16TH JUNE 2009
 PREPARED BY IBM ROCHESTER EMC LAB

Declaration

I hereby declare that the product mentioned above complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. All products supplied under this declaration will be identical to the product identified above.

Signature

Name

NIGEL MATHESON

Position in Organisation

MANAGING DIRECTOR

Date

30th June 2009

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 72090137

Blatt *Page*
0002

Ihr Zeichen *Client Reference*
Mike Lorelli

Unser Zeichen *Our Reference*
-MW- 30980138 002

Ausstellungsdatum *Date of Issue*
03.05.2010
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Hitachi Global Storage Technologies
5601 Great Oaks Parkway
San Jose CA 95119
USA

Fertigungsstätte *Manufacturing Plant*

Hitachi Global Storage
Technologies Singapore Pte. Ltd.
4, Kaki Bukit, Ave 1, #03-08,
Singapore 417939
Singapore

Prüfzeichen *Test Mark*



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

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Data carrier Hard Disk Drive Ultrastar 15K600

Change:
Upgrade of standard for all models: see above

ANLAGE (Appendix): 1, 1-2

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.



Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety
Inh. = 745219 / Deb. = 795306 / Fert. = 751344

Dipl.-Ing. M. Klug

전자문서확인번호 M3PG-66EY-8NVB-SK30



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUS156030VLS600
파생모델명 <i>Series Model Number</i>	HUS156030VLS601
인증번호 <i>Certification No</i>	HGS-HUS156030VLS60 (B)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE,PTE.LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 07월(Month) 14일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under
the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 07월(Month) 14일(Date)

전파연구소장

Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea



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※ 복사본은 상단 복사방지마크의 '원' 또는 '본' 글자가 사라집니다.



전자문서확인번호 PETW-BBQ8-XI58-1T6D



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자과적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티이엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUS156045VLS600
파생모델명 <i>Series Model Number</i>	HUS156045VLS601
인증번호 <i>Certification No</i>	HGS-HUS156045VLS60 (B)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE,PTE.LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 07월(Month) 14일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
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Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea

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* 복사본은 상당 복사방지마크의 '원' 또는 '본' 글자가 사라집니다.



전자문서확인번호 6JJX-8SL1-MFUM-7B8G



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUS156060VLS600
파생모델명 <i>Series Model Number</i>	HUS156060VLS601
인증번호 <i>Certification No</i>	HGS-HUS156060VLS60 (B)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE,PTE.LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 07월(Month) 14일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under
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2009년(Year) 07월(Month) 14일(Date)

전파연구소장



Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea

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※ 복사본은 삼단 복사방지마크의 '원' 또는 '본' 글자가 사라집니다.



전자문서확인번호 4HW5-EX4K-XUXD-ELPS



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자과적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUS156030VLF400
파생모델명 <i>Series Model Number</i>	HUS156030VLF401
인증번호 <i>Certification No</i>	HGS-HUS156030VLF40 (A)
제조자/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE PTE. LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 07월(Month) 14일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under
the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 07월(Month) 14일(Date)

전파연구소장



Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea

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* 복사본은 상단 복사방지마크의 '원' 또는 '본' 글자가 사라집니다.



전자문서확인번호 4KB1-H15S-SG1N-I10K



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUS156045VLP400
파생모델명 <i>Series Model Number</i>	HUS156045VLP401
인증번호 <i>Certification No</i>	HGS-HUS156045VLP40 (A)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE PTE. LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 07월(Month) 14일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 07월(Month) 14일(Date)

전파연구소장



Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea

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전자문서확인번호 Q8AW-8GKR-6BQB-KEE8



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자과적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀러지스아시아퍼티엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUS156060VLF400
파생모델명 <i>Series Model Number</i>	HUS156060VLF401
인증번호 <i>Certification No</i>	HGS-HUS156060VLF40 (A)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE PTE. LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 07월(Month) 14일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under
the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 07월(Month) 14일(Date)

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