

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20161110-E132003  
**Report Reference** E132003-20130731  
**Issue Date** 2016-NOVEMBER-10

**Issued to:** DELTA ELECTRONICS INC  
252 SHANG YING RD  
KUEI SHAN  
TAOYUAN HSIEN  
333 TAIWAN


**This is to certify that representative samples of** COMPONENT - FANS, ELECTRIC  
SEE ADDENDUM PAGE

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 507, Electric Fans.  
CSA C22.2 No. 113-15, Fans and Ventilators.

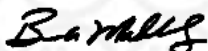
**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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# CERTIFICATE OF COMPLIANCE

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**Report Reference** E132003-20130731  
**Issue Date** 2016-NOVEMBER-10

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

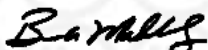
DC Fans, Models

AUB0712L-C(Y), AUB0712M-C(Y), AUB0712H-C(Y), AUB0712HH-C(Y), AFB0848SH(Y)

Note: Above (Y) may be xxxxx where x may be A through Z, 0 through 9, "-" or blank.

TFB0948CE-SP03(Y4), TFB0948CE-DC3E(Y4), THD0912HE(Y9), THB1548DE(Y9), AFB1248SHF-BL2Z(Y3), AFC0948DE-4F53R(Y3), EFB1224SHE-T8SB(Y3), PFM1412DE-SP02(Y4), PFM1412DE-01(Y6), AUC0912VBA01(Y6), AUC0912VBA02(Y6)  
THA1248BEA02(Y6), PFB0648UHE-A(Y6), AFC0912DE-C(Y7), AFB0912GHE-C(Y6), AFB1548EH-CA02(Y4), BKV 301 216/178(Y4), THB1448AEA03(Y6), PFR1224UHE(Y8), EHB1524VHG(Y8), PFR0612DHE-C(Y6), PFR0612DHE-DG1D(Y3), PFM0812HE-01(Y6), THA0412AD-01(Y6), THA0412ADA04(Y6), THA0412ADA06(Y6), THA0412ADA11(Y6), AFB1212LE-01(Y6), AFB1212ME-01(Y6), AFB1212HE-01(Y6), AFB1212VE-01(Y6), AFB1212SE-01(Y6), AFB1212EE-01(Y6), AFB1224LE-01(Y6), AFB1224ME-01(Y6), AFB1224HE-01(Y6), AFB1224VE-01(Y6), AFB1224SE-01(Y6), AFB1224EE-01(Y6), THD0912DE-DE1Z(Y4), THD0912DE-01(Y6), PFB1248UHE-01(Y5), QFR0624DH(Y9), QFR0624UH(Y9), QFR0624GH(Y9), QFR0624EH(Y9), NFB1224LX01(Y7), THC1748MG(Y9), THC1548MG(Y9), THD2048HT(Y9), AFB0612LJ-01(Y7), AFB0612MJ-01(Y7), AFB0612HJ-01(Y7), AFB0612VJ-01(Y7), AFB0624LJ-01(Y7), AFB0624MJ-01(Y7), AFB0624HJ-01(Y7), AFB0624VJ-01(Y7), AFB0612SJ-01(Y7), AFB0612EJ-01(Y7), AFB0612GJ-01(Y7), AFB0624SJ-01(Y7), AFB0624EJ-01(Y7), AFB0624GJ-01(Y7), AFB0612HH-DE19(Y4), FFB0412EN-00(Y6), FFB0412SN-00(Y6), **FFB0412VN-00(Y6)**, PFR0612XHE-01(Y5), THB0948HE-00(Y6), THD0948HE(Y9), THB0848HJ-00(Y6), PFM0912HE(Y9), ASB0505HA-01(Y6), PFM0612HE-00(Y6), QFR0824UH(Y9), QFR0824VH(Y9), QFR0824HH(Y9), QFR0924VH(Y9), QFR0924HH(Y9), QFR0924H(Y10\*), THD0948VE-02(Y6), TFC0424EN-00(Y6), THD0848HE(Y9), ASBX312HD-00(Y6), AFB0612VD-00(Y6), AUB0912HJ-00(Y6), AUB0912MJ-00(Y6), AUB0912LJ-00(Y6), AUC0712SD-00(Y6), AFB1212EJ-01(Y6), THD0848ME-00(Y6), THD0848ME(Y9), PFR0812HE-00(Y6), PFB0912DHEA02(Y5), PFB0912HE-00(Y6), PFR0912SE-00(Y6), QFD0848VE-00(Y6), PFR0812XHE-D(Y6)

Note: The number after Y represents digit, each digit may be A through Z, 0 through 9, "-" or blank. \*: For Models QFR0924H(Y10), the (Y10) excluded H(Y9).



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50415728

Blatt *Sheet*  
0016

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
SF181120K	ZTW1-YML-50165285 012	30.05.2019	(day/mo/yr)

### Genehmigungsinhaber *License Holder*

Delta Electronics, Inc.  
252, Shangying Road,  
Guishan Industrial Zone,  
Taoyuan City 33341  
Taiwan, R.O.C.

### Fertigungsstätte *Manufacturing Plant*

Refer to latest revision  
of the annex list of factories

### Prüfzeichen *Test Mark*



Bauart geprüft  
Sicherheit  
Regelmäßige  
Produktions-  
überwachung

www.tuv.com  
ID 1419081179

### Geprüft nach *Tested acc. to*

IEC 62368-1:2014  
EN 62368-1:2014

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

### Lizenzentgelte - Einheit *License Fee - Unit*

### Ventilator (DC Brushless Fan)

wie Blatt (as page) 01, Ergänzung (Addition)

Bezeichnung (Type Designation)

GFC0412DG-DXXXXXXX, GFB0412EHG-DXXXXXX, GFB0412GHG-DXXXXXX	3
FFC0412DN-DXXXXXXX, FFB0812EHXXXXXXXXXX, GFC0812DW-SM00XXXX	3
GFB0412EHS-SM07XXX, GFB0812EHS-SM00XXX, GFC0412DS-SM07XXXX	3
GFC0812DS-SM00XXXX, GFB0812GHS-SM02XXX, GFC0812DS-SM02XXXX	3
FFB0812XHXXXXXXXXXX, GFC03812HGXXXXXXXXXX, GFC0612DS-CA81XXXX	3
GFC0412DS-CD60XXXX, FFB0412UHN-SM36XXX, GFC0412DS(BC2CR)XX	3
GFC0812DS-CH14XXXX, GFC0812DS-SM04XXXX, GFC0812DW-SM01XXXX	3
GFC0612DW-CXXXXXXX, FFC0612DE-DA1MXXXX, GFM0412SS-CH53XXXX	3
GFM0412SS-DXXXXXXX, GFM0412SSA02XXXXXX, GFM0412SS-DE72XXXX	3
GFM0412SS-CXXXXXXX, GFM0412SS-DE1PXXXX, GFM0412SS-AXXXXXXX	3
GFM0412SS-DJ74XXXX, GFC0812DW-DJ23XXXX, GFC0412DSA01XXXXXX	3
GFC0612DSA01XXXXXX, GFC0812DW-AXXXXXXX, GFC0812DW-DA1AXXXX	3
GFB0612DW-01XXXXXX, GFC0612DWA01XXXXXX, GFM0412SS-01XXXXXX	3
FFB0412VN-00XXXXXX, GFC0412DS-SM06XXXX, GFC0812DW-BD71XXXX	3

X steht für : A-Z, 0-9, - oder (or) 1  
(stands for) freibleibend (blank)

Vermerke: Für zusätzliche Informationen siehe Anlage  
(Remark: For additional information see appendix)

ANLAGE (Appendix): 1.11

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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.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Albin Yang

## Declaration of Conformity

**Manufacturer name: Delta Electronics, Inc.**

Add: 252, Shangying Road, Guishan Industrial Zone, Taoyuan City 33341, Taiwan

Tel: 886-3-359-1968

Fax: 886-3-359-1991

**EU Contact address:**

Delta Electronics (Netherlands) BV

Zandsteen 15, 2132 MZ Hoofddorp, The Netherlands

**Is herewith confirmed the following equipment**

Product: DC Fan

Type Designation: GFC0412DG-DXXXXXXXX, GFB0412EHG-DXXXXXXXX, GFB0412GHG-DXXXXXXXX, FFC0412DN-DXXXXXXXX, FFB0812EHXXXXXXXXXX, GFC0812DW-SM00XXXX, GFB0412EHS-SM07XXX, GFB0812EHS-SM00XXX, GFC0412DS-SM07XXXX, GFC0812DS-SM00XXXX, GFB0812GHS-SM02XXX, GFC0812DS-SM02XXXX, FFB0812XHXXXXXXXXXX, GFC03812HGXXXXXXXXXX, GFC0612DS-CA81XXXX, GFC0412DS-CD60XXXX, FFB0412UHN-SM36XXX, GFC0412DS(BC2CR)XX, GFC0812DS-CH14XXXX, GFC0812DS-SM04XXXX, GFC0812DW-SM01XXXX, GFC0612DW-CXXXXXXXX, FFC0612DE-DA1MXXXX, GFM0412SS-CH53XXXX, GFM0412SS-DXXXXXXXX, GFM0412SSA02XXXXXXXX, GFM0412SS-DE72XXXX, GFM0412SS-CXXXXXXXX, GFM0412SS-DE1PXXXX, GFM0412SS-AXXXXXXXXX, GFM0412SS-DJ74XXXX, GFC0812DW-DJ23XXXX, GFC0412DSA01XXXXXXXX, GFC0612DSA01XXXXXXXX, GFC0812DW-AXXXXXXXXX, GFC0812DW-DA1AXXXX, GFB0612DW-01XXXXXXXX, GFC0612DWA01XXXXXXXX, GFM0412SS-01XXXXXXXX, **FFB0412VN-00XXXXXXXX**, GFC0412DS-SM06XXXX, GFC0812DW-BD71XXXX

(X stands for 0-9, A-Z, - or blank for marketing purpose only)

**Comply with the following directives and requirements set out in the Council Directive on the Approximation for the Laws of the Member States**

- Low Voltage Directive 2014/35/EU
  - EN 62368-1: 2014 (Report No.: R 50415728)
  - EN 60335-1: 2012+A11 (Report No.: )
  - EN 60335-2-80:2003+A1:2004+A2:2009 (Report No.: )
  - EN 60335-2-40:2003+A11+A12+A1+A2+A13 (Report No.: )
  - EN 62233:2008 (Report No.: )

- Risk Assessment Report (Report No.:R50415728\_P.16\_RA)
- RoHS Directive (EU) 2015/863
  - EN 50581: 2012(Ref. No.: DET\_Safety Product\_RoHS, WJ\_Safety Product\_RoHS, DG\_CZ\_Safety\_Product\_RoHS)
- ErP Directive 2009/125/EC, Commission Regulation (EU) No 327/2011  
(Report No.: ErP 20130419) for Model Name GFC0812DW-SM01XXXX

***Person responsible for making this declaration***

Name, Surname: Tammy Chen

Title: Senior Safety Engineer

Place: Taiwan, Delta

Date: 2019-5-30

Signature: 