# DELTA ELECTRONICS, INC. 252, SHANG YING ROAD, KUEI SAN TAOYUAN HSIEN 333, TAIWAN, R. O. C.

# SPECIFICATION FOR APPROVAL

TEL: 886-(0)3-3591968

FAX : 886 - (0)3 - 3591991

| Customer:          |              |           |
|--------------------|--------------|-----------|
| Description:       | DC FAN       |           |
| Customer P/N:      |              | REV:      |
| Delta Model NO.:   | AFB1212LE    |           |
| Sample Rev:        | 00           | Issue NO: |
| Sample Issue Date: | JUL.07.2005. | Quantity: |

## 1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH TWO PHASES AND FOUR POLES.

## 2. CHARACTERS:

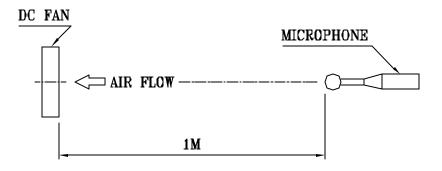
| ITEM                                       | DESCRIPTION  |
|--|--|
| RATED VOLTAGE                              | 12 VDC   |
| OPERATION VOLTAGE                          | 4.0 - 13.2 VDC   |
| INPUT CURRENT                              | 0.19 (MAX. 0.30) A   |
| INPUT POWER                                | 2.28 (MAX. 3.60) W   |
| SPEED                                      | 2000 R.P.M. (REF.)   |
| MAX. AIR FLOW<br>(AT ZERO STATIC PRESSURE) | 2.400 (MIN. 2.210 ) M <sup>3</sup> /MIN.<br>84.76 (MIN. 78.05 ) CFM              |
| MAX. AIR PRESSURE<br>(AT ZERO AIRFLOW)     | 4.56 (MIN. 3.86 ) mmH <sub>2</sub> 0<br>0.180 (MIN. 0.152 ) inchH <sub>2</sub> 0 |
| ACOUSTICAL NOISE (AVG.)                    | 34.0 (MAX. 37.0) dB-A  |
| INSULATION TYPE                            | UL: CLASS A  |

(continued)

| PART NO:     |           |
|--------------|-----------|
| DELTA MODEL: | AFB1212LE |

|                        | <del> </del>  |  |  |
|------------------------|---|--|--|
| INSULATION STRENGTH    | 10 MEG OHM MIN. AT 500 VDC<br>(BETWEEN FRAME AND (+) TERMINAL)                |  |  |
| DIELECTRIC STRENGTH    | 5 mA MAX. AT 500 VAC 60 Hz<br>ONE MINUTE, (BETWEEN FRAME AND<br>(+) TERMINAL) |  |  |
| EXTERNAL COVER         | OPEN TYPE   |  |  |
| LIFE EXPECTANCE        | 70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.                  |  |  |
| ROTATION               | CLOCKWISE VIEW<br>FROM NAME PLATE SIDE  |  |  |
| OVER CURRENT SHUT DOWN | THE CURRENT WILL SHUT DOWN WHEN LOCKING ROTOR                                 |  |  |
| LEAD WIRE              | UL 1007 -F- AWG #24 BLACK WIRE NEGATIVE(-) RED WIRE POSITIVE(+)               |  |  |
|                        |   |  |  |

- NOTES: 1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UP THROUGH 10 MINUTES.
  - 2. THE VALUES WRITTEN IN PARENS, ( ), ARE LIMITED SPEC.
  - 3. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE.

| PART NO:           |            |  |
|--------------------|------------|--|
| DELTA MODEL:       | AFB1212LE  |  |
| 3. MECHANICAL:     |            |  |
| 3-1. DIMENSIONS    |            | SEE DIMENSIONS DRAWING                                 |
| 3-2. FRAME         |            | PLASTIC UL: 94V-0                                      |
| 3-3. IMPELLER      |            | PLASTIC UL: 94V-0                                      |
| 3-4. BEARING SYSTI | EM         | TWO BALL BEARINGS                                      |
| 3-5. WEIGHT        |            | 256 GRAMS  |
| 4. ENVIRONMENTAL:  |            |  |
| 4-1. OPERATING TE  | MPERATURE  | 10 TO +60 DEGREE C                                     |
| 4-2. STORAGE TEMP  | ERATURE    | 40 TO +75 DEGREE C                                     |
| 4-3. OPERATING HU  | MIDITY     | 5 TO 90 % RH   |
| 4-4. STORAGE HUMI  | DITY       | 5 TO 95 % RH   |
| 5. PROTECTION:     |            |  |
| 5-1. LOCKED ROTOR  | PROTECTION |  |
|                    |            | TECTS MOTOR FROM FIRE IN 96<br>N AT THE RATED VOLTAGE. |
| 5 D DOLLDING BOOK  |            |  |

#### 5-2. POLARITY PROTECTION

BE CAPABLE OF WITHSTANDING IF REVERSE CONNECTION FOR POSITIVE AND NEGATIVE LEADS.

## 6. RE OZONE DEPLETING SUBSTANCES:

6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

# 7. PRODUCTION LOCATION

7-1. PRODUCTS WILL BE PRODUCED IN CHINA OR THAILAND OR TAIWAN.

| PART NO:     |           |
|--------------|-----------|
| DELTA MODEL: | AFB1212LE |

#### 8. BASIC RELIABILITY REQUIREMENT:

B-1. THERMAL LOW TEMPERATURE: -40°C CYCLING HIGH TEMPERATURE: +80°C SOAK TIME: 30 MINUTES

TRANSITION TIME < 5 MINUTES

DUTY CYCLES: 5

B-2. HUMIDITY TEMPERATURE: +25°C ~ +65°C **EXPOSURE** 

HUMIDITY: 90-98% RH @ +65°C

FOR 4 HOURS/CYCLE

POWER: NON-OPERATING TEST TIME: 168 HOURS

TEMPERATURE: +25°C 8-3. VIBRATION

ORIENTATION: X, Y, Z POWER: NON-OPERATING

VIBRATION LEVEL: OVERALL gRMS=3.2

| FREQUENCY(Hz) | PSD(G^2/Hz) |
|---------------|-------------|
| 10            | Ò.04Ó       |
| 20            | 0.100       |
| 40            | 0.100       |
| 800           | 0.002       |
| 1000          | 0.002       |

TEST TIME: 2 HOURS ON EACH ORIENTATION

8-4. MECHANICAL TEMPERATURE: +20°C SHOCK

ORIENTATION: X, Y, Z **POWER: NON-OPERATING** ACCELERATION: 20 G MIN.

PULSE: 11 ms HALF-SINE WAVE NUMBER OF SHOCKS: 5 SHOCKS

FOR EACH DIRECTION

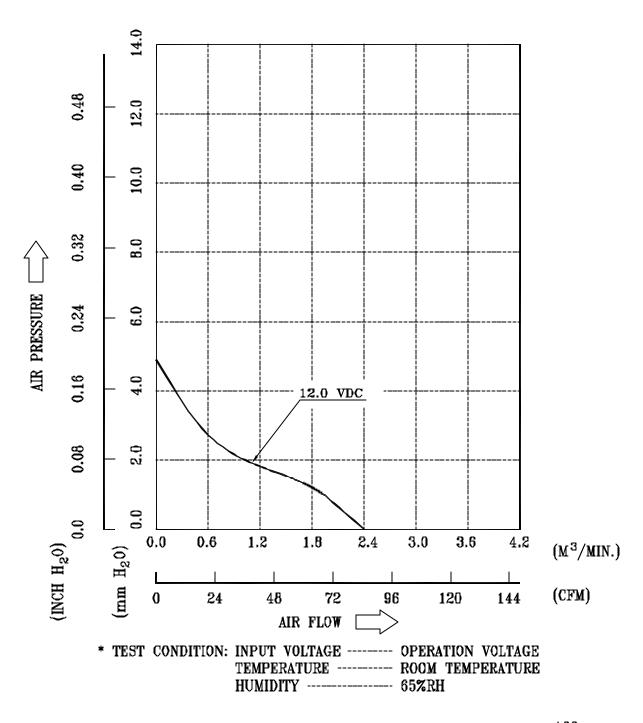
8-5. LIFE TEMPERATURE: MAX, OPERATING TEMPERATURE

POWER: OPERATING

DURATION: 1000 HOURS MIN.

| PART NO:     |           |
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# 9. P & Q CURVE:

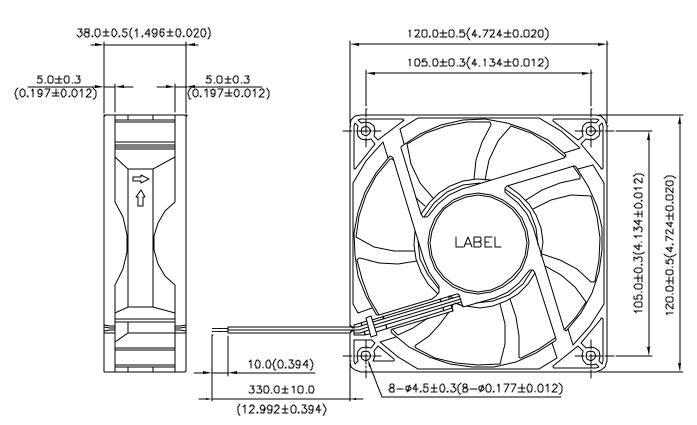


A00

| PART NO:     |           |
|--------------|-----------|
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#### 10. DIMENSION DRAWING:





UNIT: mm(INCH)

A00



# **Descriptions:**

- 1. Delta will not guarantee the performance of the products if the application condition falls outside the parameters set forth in the specification.
- A written request should be submitted to Delta prior to approval if deviation from this specification is required.
- 3. Please exercise caution when handling fans. Damage may be caused when pressure is applied to the impeller, if the fans are handled by the lead wires, or if the fans are hard-dropped to the production floor.
- 4. Except as pertains to some special designs, there is no guarantee that the products will be free from any such safety problems or failures as caused by the introduction of powder, droplets of water or encroachment of insect into the hub.
- 5. The above-mentioned conditions are representative of some unique examples and viewed as the first point of reference prior to all other information.
- 6. It is very important to establish the correct polarity before connecting the fan to the power source. Positive (+) and Negative (-). Damage may be caused to the fans if connection is with reverse polarity, as there is no foolproof method to protect against such error.
- 7. Delta fans are not suitable where any corrosive fluids are introduced to their environment.
- 8. Please ensure all fans are stored according to the storage temperature limits specified. Do not store fans in a high humidity environment. We highly recommend performance testing is conducted before shipping, if the fans have been stored over 6 months.
- Not all fans are provided with the Lock Rotor Protection feature. If you impair the rotation of the impeller for the fans that do not have this function, the performance of those fans will lead to failure.
- 10. Please be cautious when mounting the fan. Incorrect mounting of fans may cause excess resonance, vibration and subsequent noise.
- 11. It is important to consider safety when testing the fans. A suitable fan guard should be fitted to the fan to guard against any potential for personal injury.
- 12. Except where specifically stated, all tests are carried out at relative (ambient) temperature and humidity conditions of 25°C, 65%. The test value is only for fan performance itself.
- 13. Be certain to connect an "over 4.7μF" capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.

1248, followed by VHE; Model WFB followed by 1248, followed by HHE. Model EFB followed by 0912 or 0924, followed by H, HH, L, M, SH or VH.

Model WFB followed by 1212 or 1224, followed by H, HE, HH, HHE, L, LE, M or ME; Model WFB followed by 1212, 1212, followed by B or BE.

Model BFB followed by 1212, 1224 followed by HE.

Model BFB followed by 0305, 03505, followed by HP, LP, MP.

Model BFB followed by 0505 or 0512, followed by HP, LP, MP. Model AFB or ASB followed by 0505 or 0512, followed by HA, LA or MA. Model BFB followed by 0712, 0724, followed by H, L, M.

Model BFC followed by 1212, followed by A, B; Models BFC1212C, BFC1224C, BFC1248C.

Model EFB followed by 0512, followed by HHA, HA, LA or MA, and EFB0505HA, EFB0505MA, EFB0505LA, followed by FOO or STD.;

Model EFB followed by 0512, followed by HHA, HA, LA or MA, and EFBUSUSHA, EFBUSUSHA, EFBUSUSHA, followed by POO or STD.;

Model EFB followed by 0505, followed by HA, LA or MA, followed by FOO or STD.

Model AFC followed by 0512, 0612, 0712, 0812, 0824, 0912 or 0924, followed by "A", "AB", "AD", "B", "BB", "BD" or "C"; Model AFC

followed by 0912, followed by "A" or "B", followed by -(H), -(HH), -(M); Model ASC followed by 0612, 0812, 0912 followed by "A" or "B".

Model ASB followed by 0605, followed by H, L, M; Model ASB followed by 0612, followed by H-SB, L-SB or M-SB; Model ASB followed by 0812 or 0824, followed by H, HH, L, LL or M; Model ASB followed by 0912, 0924, followed by H, HH, L, L-V, M; Model ASB followed by 0924 followed by H, HH, L, L-V, M; Model ASB followed by 0924 followed by H, HH, L, LL N, M, M M. 0812, followed by H, H-N, L, L-N, M, M-N

Model AFB followed by 0612, followed by H, HH, L, M, followed by SB; Model AFB followed by 0812, followed by H, L or M, followed by

SB; Model AFB followed by 0912, followed by H, L or M, followed by SB.

Model AFB followed by 1212, followed by HE, HHE, LE, ME, SHE VHE; Model AFB followed by 1224, followed by HE, HHE, LE, ME, SHE, VHE; Model AFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by 1212, followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, LE, ME, VHE; MODEL EFB followed by HE, HHE, ME, ME, ME, ME, ME, ME, ME, ME ME, SHE, VHE; Model EFB followed by 1224, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE:

Model BFB followed by 1012, followed by H, HH, L, LL or M; Model BFB followed by 1024, followed by H, HH, L, LL or M; Model BFB followed by 1212, followed by H, HH, L, LL or M; Model BFB followed by 1224, followed by H, HH, L, LL or M; Model BFB followed

by 1248, followed by H, HH, L, LL or M.

Model BFB followed by 1212, 1224, followed by HE, HHE, LE, ME or VH; Model BFB followed by 1248, followed by HE, LE or ME; Model BFB followed by 1612, followed by H, L or M; Model BFB followed by 1624, followed by H, L or M; Model BFB followed by 1648, followed by H, L or M.

Models BFB0405HE, -LE, -ME, BFB0412HE, -HHE, -LE, -ME.

Models AUB0812H, -HH, -L, -LB, -M, -SHB, -VH, AUB0824H, -HH, -L, -LB, -M, -SHB, -VH.
Model BFB followed by 0505, 0512, 0524, followed by H, HH, L or M; Model BSB followed by 0505, 0512, 0524, followed by H, HH, L or M.

Models EFB1212 -H, -HF, -HH, -HHF, -L, -LF, -M, -MF, -SH, -VH, -VHF, EFB1224 -H, -HF, -HH, -HHF, -L, -LF, -M, -MF, -SH, -VH, -VHF, EFB1248-H, -HH, -L, -M, -SH, -VH.

Model EFB followed by 0405, followed by HD, HHD, LD, LLD, MD VHD; Model EFB followed by 0412, followed by HD, HHD, LD, LLD,

MD, VHD, Model EFB followed by 0424, followed by HD, HHD, LD, LLD, MD, VHD.

Models BFB0305HA, -HHA, -LA, -MA, BFB0312HA, -HHA, -LA, -MA.

Models AFB1512H, -L, -M, AFB1548H, -L, -M, AFB1712H, -L, -M, AFB1748H, -L, -M, EFB1248HF, -HHF, -LF, -MF, -VHF, EFB1548HG, -HHG, -LG, -MG, -VHG, EFB1748HG, -HHG, -LG, -MG, -VHG.

Models AFB0305LK, -MK, -HK, AFB0405LK, -MK, -HK.

Model BFB03505 followed by HR, LR, MR; Model BFB03505 followed by HA, HHA, LA, MA; Model BFB03512 followed by HA, HHA, LA, MA

Models AFB02505LB, -MB, -HB, -HHB.

Model SFB followed by 0112, followed by H, HH, M or VH; Model SUB followed by 0112, 0212, followed by H, HH, M or VH. Model EFB followed by 1512, 1712, followed by HG, HHG, LG, MG; Model EFB followed by 1524, 1724, followed by HG, HHG, LG, MG,

Model EFB followed by 0912, 0924, followed by HE, HHE, LE or ME.

Model FFB followed by 0848, followed by SHE; Model FFB followed by 0912 or 0924, followed by EHE, HHE, SHE or VHE; Model FFB followed by 0948, followed by HHE, SHE or VHE; Model FFB followed by 1212 or 1224, followed by EHE, HE, HHE, SHE or VHE; Model FFB followed by 1248, followed by EHE, SHE or VHE.

Model EFC followed by 1212 or 1224, followed by DE; Model EFC0412 followed by AD or BD.

Model BFB followed by 0405, 0412, 04505, 04512, 0505 or 0512, followed by HA, HHA, LA or MA.

Model EUB followed by 0405, 0412 or 0424, followed by HD, HHD, LD, LLD or MD; Model EUB followed by 0412 or 0424, followed by

Model ASB followed by 0605, followed by HB, HHB, LB or MB; Model ASB followed by 0612 or 0624, followed by HB, HHB, LB, MB or VHB, Model AUB followed by 0605, followed by HB, HHB, LB or MB; Model AUB followed by 0612 or 0624, followed by HB, HHB, LB, MB

Model AFB followed by 1524, 1724, followed by H, HH, L or M; Model EFC followed by 1248, followed by EE; Model FFB followed by 0812, 0824, followed by HHE, SHE or VHE; Model FFB0848 followed by HHE, VHE or SHE.

Model BFB followed by 0405, 0505 or 04505, followed by HP, LP or MP.

Model EFB followed by 0612, followed by HA, HHA, LA or MA. Model AUB followed by 0612, 0624 or 0648, followed by EH, SH or VH.

Model EFB followed by 0812 or 0824, followed by HE, HHE, LE or ME.

Model ASB followed by 0605, followed by HD, HHD, LD or MD; Model ASB followed by 0612 or 0624, followed by HD, HHD, LD, MD or VHD; Model AUB followed by 0605, 0612 or 0624, followed by HD, HHD, LD or MD; Model AUB followed by 0612 or 0624, followed by

Model EFB followed by 0912 or 0924, followed by HF, HHF, LF, MF, SHF or VHF.

Model EFB followed by 1312 or 1324, followed by HE, HHE, LE, ME, SHE or VHE; Model EFB followed by 1348, followed by HE, HHE, LE. ME or VHE.

Model ASB followed by 0712 or 0724, followed by H, HH, L, M or VH; Model AUB followed by 0712 or 0724, followed by H, HH, L, M or

Model EFB followed by 0812 or 0824, followed by EHF, HF, HHF, LF, **MF**, **SHF or VHF**.

Model EFC followed by 0912, followed by AE or BE.

Model HFB followed by 0605, 0612 or 0624, followed by HB, HD, HHB, **HHD**, **LB**, **LD**, **MB** or MD.

Model AFB followed by 1212 or 1224, followed by H, HH, L, M, SH or VH.

Model KFB followed by 03205, followed by HP, LP or MP; Model KFB followed by 03205, followed by HA, LA or MA.

Model FFB followed by 1312, 1324, 1348, followed by EHE, SHE or VHE.



Certification Record No: 091949 0 000

Class No: 3812 01

| ·           |    |     | <u> </u>       |
|-------------|----|-----|----------------|
| AFB0824M    | 24 | 100 | STD R00 F00    |
| AFB0824MB   | 24 | 100 | STD R00 F00    |
| AFB0824SH   | 24 | 330 | STD R00 F00    |
| AFB0824SHB  | 24 | 260 | STD R00 F00    |
| AFB0824VH   | 24 | 210 | STD R00 F00    |
| AFB0824VHB  | 24 | 180 | STD R00 F00    |
| AFB0848L    | 48 | 90  | •              |
| AFB0848M    | 48 | 110 | <del>-</del>   |
| AFB0848H    | 48 | 110 | -              |
| AFB0848HH   | 48 | 120 | -              |
| AFB0912H    | 12 | 300 | STD R00 F00    |
| AFB0912HH   | 12 | 400 | STD R00 F00    |
| AFB0912L    | 12 | 150 | STD R00 F00    |
| AFB0912L-SB | 12 | 150 | <b>-</b>       |
| AFB0912M-SB | 12 | 200 | -              |
| AFB0912H-SB | 12 | 300 | -              |
| AFB0912M    | 12 | 200 | STD R00 F00    |
| AFB0912VH   | 12 | 600 | STD R00 F00    |
| AFB0924H    | 24 | 200 | STD R00 F00    |
| AFB0924HH   | 24 | 250 | STD R00 F00    |
| AFB0924L    | 24 | 100 | STD R00 F00    |
| AFB0924M    | 24 | 150 | STD R00 F00    |
| AFB0924VH   | 24 | 400 | STD R00 F00    |
| AFB0948L    | 48 | 80  |                |
| AFB0948M    | 48 | 80  | <del>-</del>   |
| AFB0948H    | 48 | 90  | - <del>-</del> |
| AFB0948HH   | 48 | 140 |                |
| AFB1212LE   | 12 | 300 |                |
| AFB1212ME   | 12 | 400 |                |
|             |    | QE. |                |

# **VDE** Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Licence No.

001764 ÜG

раго

Name und Sitz des Genehmigungs-Inhabers / Name end registered seet of the Licence holder

Delta Electronics Inc. 186 Ruey Kuang Road NEIHU TAIPE! (114), Taiwan Akenzeichen / Fille net.

11641-2611-0001 / 32Y3F F13 / SFK

letzte Anderung / updated

Detum / Date

2001-06-05

1994-06-08

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 001764 ÜG. This supplement is only valid in conjunction with page 1 of the Licence No. 001764 ÜG.

|   |                    | Jahresgebühren-Einheiten /<br>Annual fee umits |
|---|--------------------|--|
| AFB0724L/M/H/HH/VH                                  | DC 24 V            | 5.00   |
| AFB0805LL/L/M/H                                     | DC 5 V             | 4,00   |
| AFB0812LL/L/M/H/HH/VH/SH                            | DC 12 V            | 7,00   |
| AFB0824L1/L/M/H/HH/VH/SH                            | DC 24 V            | 7,00   |
| AFB0912L/M/H/HH/VH                                  | DC 12 V            | 4,00   |
| AFB0924L/M/H/HH/VH                                  | DC 24 V            | 4,00   |
| AFC0612A  | DC 12 V            | 1,00   |
| AFC0612B  | DC 12 V            | 1,00   |
| AFB0605LB/MB/HB/HHB                                 | DC 5 V             | 4,00   |
| AFB0605LLD/LD/MD/HD/HHD                             | DC 5 V             | 5,00   |
| AFB0612LLD/LD/MD/HD/HHD/VHD                         | DÇ 12 V            | 6,00   |
| AFB0624LLD/LD/MD/HD/HHD/VHD                         | DC 24 V            | 6,00   |
| WFB1212ME-RDA                                       | DC-12 V            | 2,00   |
| AFC0912A/B-(M/H/HH)                                 | DC 12 V            | 2,00   |
| AFC0912A/B-F00(M/H/HH)                              | DC 12 V            | 1,00   |
| AFC0912A/B-R00(M/H/HH)                              | DC 12 V            | 1,00   |
| ASB0912L-V  | DC 12 V            | 2,00   |
| DSB0612L/M/H  | DC 12 V            | 3,00   |
| BFB1012LL/L/M/H/HH(-F00/R00)                        | DC 12 V            | 5,00   |
| BFB1024LL/L/M/H/HH(-F00/R00)                        | DC 24 V            | 5,00   |
| BFC1012A/B(-F00/F05/R00)                            | DC 12 V            | 2,00   |
| BFC1012C(-F00)                                      | DC 12 V            | 1,00   |
| AFB1212LE/ME/HE/HHE/VHE(-F00/F05/R00)               | DC 12 V            | 5,00   |
| AFB1224LE/ME/HE/HHE/VHE(-F00/F05/R00)               | DC 24 V            | 5,00   |
| BFB1224LE/ME/HHE(-F00/R00)                          | DC 24 V<br>DC 48 V | 3,00   |
| BFB1248LE/ME/HE(-F00/R00)                           | DC 46 V            | 3,00<br>3,00                                   |
| AFB0612L-SB/M-SB/H-SB<br>AFB0812L-SB/M-SB/H-SB(F00) | DC 12 V            | 3,00   |
| AFB0912L-SB/M-SB/H-SB(F00)                          | DC 12 V            | 3,00   |
| ASB0612L-SB/M-SB/H-SB                               | DC 12 V            | 3,00   |
| AFB02505LA/MA/HA                                    | DC 5 V             | 3,00   |
| AFB02512LA/MA/HA/HHA                                | DC 12 V            | 4,00   |
| AFC0712A/B  | DC 12 V            | 2,00   |
| ASC0612A/B  | DC 12 V            | 2,00   |
| ASC0812A/B  | DC 12 V            | 2,00   |
| ASC0912A/B  | DC 12 V            | 2,00   |
| AFB0305LLA/LA/MA/HA                                 | DC 5 V             | 4,00   |
| AFB0312LLA/LA/MA/HA                                 | DC 12 V            | 4.00   |
| ASB0812L-SB/M-SB/H-SB                               | DC 12 V            | 3,00   |
| ASB0912L-SB/M-SB/H-SB                               | DC 12 V            | 3,00   |