

DC FAN			
	REV.		
GFC0624DW-DT48	REV.	00	
JUN-22-2013			
	GFC0624DW-DT48	REV. GFC0624DW-DT48 REV.	REV. GFC0624DW-DT48 REV. 00

PLEASE SEND ONE COPY OF THIS SPECIFICATION BACK AFTER YOU SIGNED APPROVAL FOR PRODUC-TION PRE-ARRANGEMENT.

APPROVED BY	:
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DATE:

Delta Electronics, Inc. HeTianXia High-Tech Industrial Park. Shi Jie Town, Dong Guan City. Guangdong Province, China. P. R. C. TEL : 86-769-86329008 FAX : 86-769-86631589 Delta Electronics, Inc. HeTianXia High-Tech Industrial Park. Shi Jie Town, Dong Guan City. Guangdong Province, China. P. R. C.

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STATEMENT OF DEVIATION

DESCRIPTION :		

Delta Electronics, Inc. HeTianXia High-Tech Industrial Park. Shi Jie Town, Dong Guan City. Guangdong Province, China. P. R. C.

TEL : 86-769-86329008 FAX : 86-769-86631589

SPECIFICATION FOR APPROVAL

Customer:		
Description:	DC FAN	
Customer P/N:		REV:
Delta Model NO.:	GFC0624DW-DT48	Delta Safety Model NO.: GFC0624DW
Sample Rev:	00	Issue NO:
Sample Issue Date	e: JUN-22-2013	Quantity:

1. SCOPE:

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

2. CHARACTERS:

ІТЕМ	DESCRIPTION			
RATED VOLTAGE	21 VDC			
OPERATION VOLTAGE	18.0 - 26.0 VDC			
INPUT CURRENT	1.40 (MAX. 2.00) A (SAFETY CURRENT 2.00 A)			
INPUT POWER	31.20 (MAX. 48.00) W			
SPEED	FRONT 11300/REAR 12500 R.P.M. ±10%			
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	1.996 (MIN. 1.796) M ³ /MIN. 69.44 (MIN. 62.50) CFM			
$\begin{array}{c c} \text{MAX. AIR PRESSURE} \\ \text{(AT ZERO AIRFLOW)} \end{array} \begin{array}{c} 76.83 & (\text{MIN. 62.23}) & \text{mmH}_2 \\ 3.025 & (\text{MIN. 2.450}) & \text{inchH}_2 \end{array}$				
ACOUSTICAL NOISE (AVG.) 71.5 (75.5 MAX.) dBA				
INSULATION TYPE	UL: CLASS A			
	1			

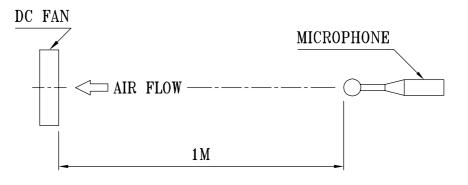
(continued)

DELTA MODEL: GFC0624DW-DT48

INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)			
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 50/60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)			
EXTERNAL COVER	OPEN TYPE			
LIFE EXPECTANCE (AT LABEL VOLTAGE)	50,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.			
ROTATION	TWO FANS ROTATE IN COUNTER DIRECTIONS PLATE SIDE SHOWED IN THE NAME			
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN WHEN LOCKING ROTOR			
LEAD WIRE	UL 1061 -F- AWG #24 INLET FAN OUTLET FAN RED WIRE (+) ORANGE WIRE (+) BLACK WIRE (-) BROWN WIRE (-) UL 1061 -F- AWG #26 YELLOW WIRE (PWM) BLUE WIRE (F00) GREEN WIRE (F00)			

NOTES: 1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UP THROUGH 10 MINUTES.

- 2. STANDARD AIR PROPERTY IS AIR AT (Td) 25°C TEMPERATURE, (RH) 65% RELATIVE HUMIDITY, AND (Pb) 760 mmHg BAROMETRIC PRESSURE.
- 3. THE VALUES WRITTEN IN PARENS, (), ARE LIMITED SPEC.
- 4. 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.

DELTA MODEL: GFC0624DW-DT48

3. MECHANICAL:

	3-1.	DIMENSIONS	SEE	DIM	IENS	SIONS	5 DR	AWI	NG
	3-2.	FRAME		- P	PLAS	STIC	UL:	94V	/-0
	3-3.	IMPELLER		- P	PLAS	STIC	UL:	94V	7-0
	3-4.	BEARING SYSTEM		- TV	٧O	BALL	BEA	RIN	IGS
	3-5.	WEIGHT				2	60	GRA	MS
4.	ENVI	RONMENTAL:							
	4-1.	OPERATING TEMPERATURE		10 '	TO	+60	DEG	REF	EC
	4-2.	STORAGE TEMPERATURE		40 '	TO	+70	DEG	REE	E C
	4-3.	OPERATING HUMIDITY			-	5 TO	90	%	RH
	4-4.	STORAGE HUMIDITY				5 TO	95	%	RH

5. PROTECTION:

5-1. LOCKED ROTOR PROTECTION

IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM FIRE IN 96 HOURS OF LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.

5-2. POLARITY PROTECTION

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

6. RE OZONE DEPLETING SUBSTANCES:

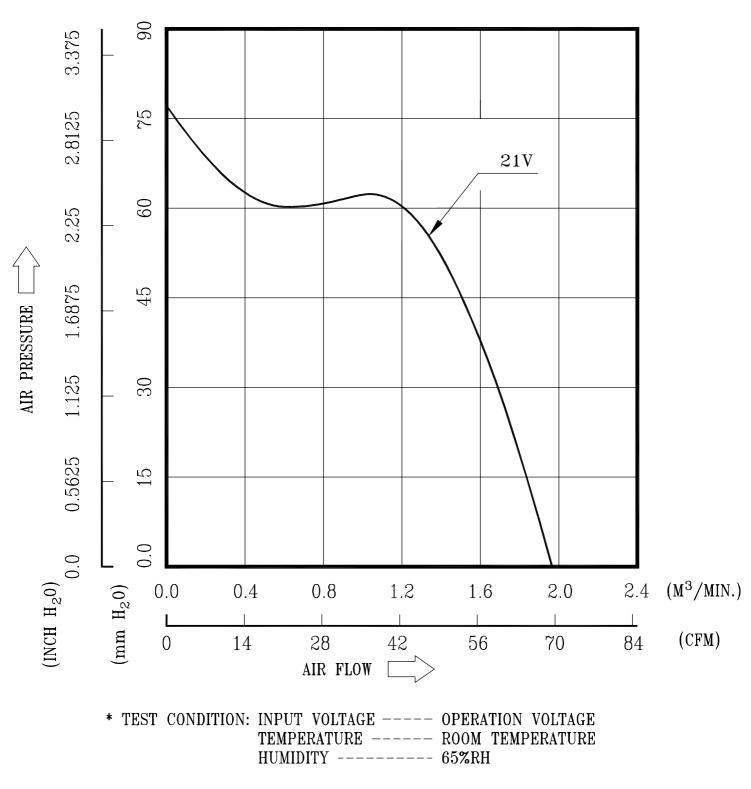
6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

7. PRODUCTION LOCATION

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

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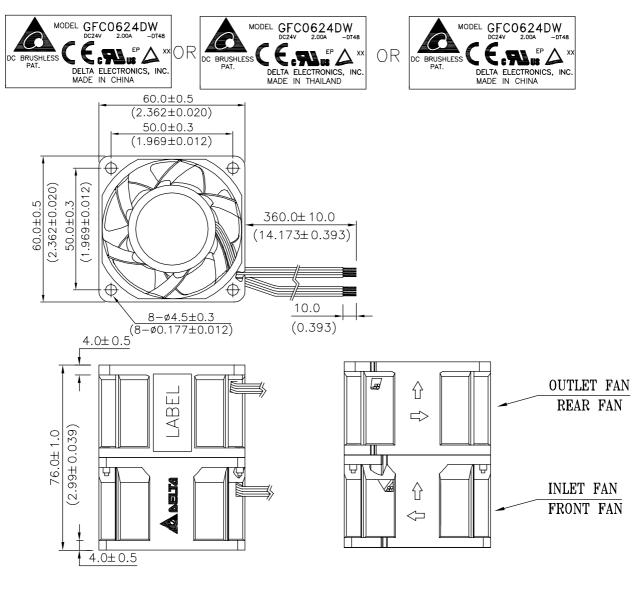
8. P & Q CURVE:



A00

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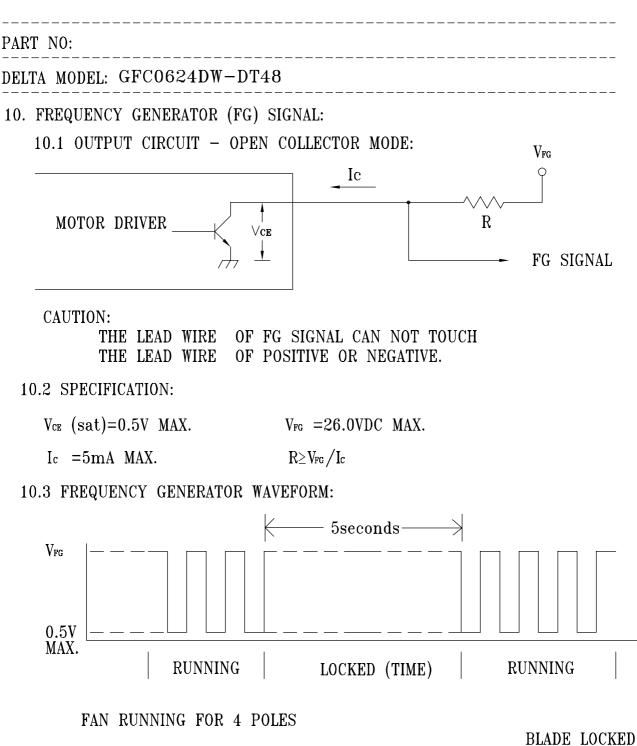
9. DIMENSION DRAWING: LABEL:

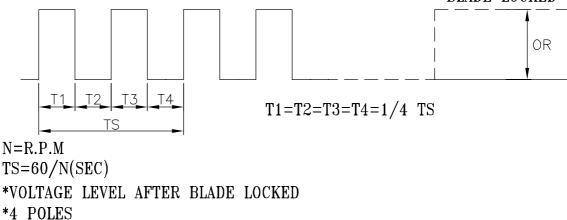


UNIT: mm (INCH)

NOTES:

- 1. LEAD WIRE: UL1061 AWG#24 RED (INLET FAN) & ORANGE (OUTLET FAN) WIRE ----- (+) BLACK (INLET FAN) & BROWN (OUTLET FAN) WIRE ----- (-) LEAD WIRE: UL1061 AWG#26 BLUE (INLET FAN) & GREEN (OUTLET FAN) WIRE ----- (F00) YELLOW (INLET FAN) & WHITE (OUTLET FAN) WIRE ----- (PWM)
- 2. THIS PRODUCT IS ROHS COMPLIANT.





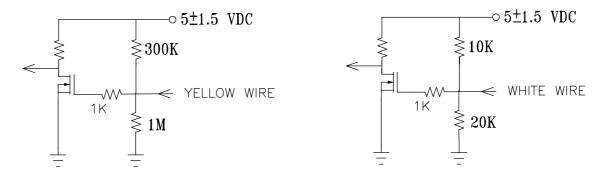
- THE PREFERRED OPERATING POINT FOR THE FAN IS 25K HZ.
- AT 100% DUTY CYCLE, THE ROTOR WILL SPIN AT MAXIMUM SPEED.
- AT 0% DUTY CYCLE, THE ROTOR WILL SPIN AT MINIMUM SPEED.
- WITH CONTROL SIGNAL LEAD DISCONNECTED, THE FAN WILL SPIN AT MAXIMUM SPEED.
- AT RATED VOLTAGE ,25K HZ 30% DUTY CYCLE ,THE FAN WILL BE ABLE TO START FROM A DEAD STOP .
- 12. SPEED VS PWM CONTROL SIGNAL: (AT RATED VOLTAGE & PWM FREQUENCY=25KHZ)

DUTY CYCLE (%)	SPEED R.P.M. (REF.)	CURRENT (A) TYP.
100	FRONT 11300/REAR 12500 R.P.M. ±10%	1.40
50	FRONT 5650/REAR 6250 R.P.M. ±10%	0.30
0	0	0.02

13. PWM CONTROL LEAD WIRE INPUT IMPEDANCE:

FRONT FAN

REAR FAN



13-1. THE FAN SPEED WILL DEFAULT TO MAXIMUM WHEN THE SPEED CONTROL INPUT IS LEFT UNCONNECTED.



Application Notice

- **1.** Delta will not guarantee the performance of the products if the application condition falls outside the parameters set forth in the specification.
- 2. 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 fan was 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, if there is no foolproof method to protect against such error specifically mentioned in this spec.
- 7. Delta fans without special protection 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.
- 9. 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 room (ambient) temperature and relative humidity conditions of 25°C, 65% RH. The test value is only for fan performance itself.
- 13. Be certain to connect an "4.7μF or greater" capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.

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