

Customer		
Description	DC FAN	
Part No.		Rev
Delta Model No.	PFB0912EHE-T500	Rev
Sample Issue No.		
Sample Issue Date.	Aug 10' 2007	

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

DELTA ELECTRONICS (THAILAND) PUBLIC COMPANY LIMITED. 111 MOO 9 WELLGROW INDUSTRIAL ESTATE BANGNA-TRAD ROAD, TAMBON BANGWUA, AMPHUR BANGPAKONG, CHACHOENGSAO 24180 THAILAND TEL. +66-(0)-38522455, FAX. +66-(0)-38522477

DELTA ELECTRONICS (THAILAND) PCL. 111 MOO 9, WELLGROW INDUSTRIAL ESTATE, BANGNA-TRAD ROAD, BANGWUA, BANGPAKONG, CHACHEONGSAO 24180 THAILAND.

TEL : +66-(0)38-522455 FAX : +66-(0)38-522477

SPECIFICATION FOR APPROVAL

Customer:			
Description:	DC FAN		
Customer P/N:		REV:	
Delta Model NO.:	PFB0912EHE - T500		
Sample Rev:	00	Issue NO:	
Sample Issue Date	··	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:

	DESCRIPTION				
RATED VOLTAGE	12 VDC				
OPERATION VOLTAGE	7.0 - 13.2 VDC				
INPUT CURRENT	0.68 (0.88 MAX.) A				
INPUT POWER	8.16 (10.56 MAX.) W				
SPEED	4800 R.P.M. (REF.)				
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	2.936 (MIN. 2.642) M^3/MIN 103.67 (MIN. 93.30) CFM				
MAX.AIR PRESSURE (AT ZERO AIR FLOW)	17.56 (MIN. 14.22)mmH ₂ 0 0.691 (MIN. 0.559)inchH ₂ 0				
ACOUSTICAL NOISE (AVG.)	$\begin{array}{c}$				
INSULATION TYPE	UL: CLASS A				

(continued)

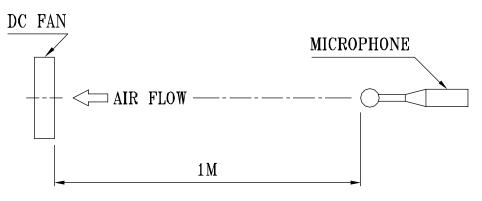
PART NO:

DELTA MODEL: PFB0912EHE-T500

INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
EXTERNAL COVER	OPEN TYPE
LIFE EXPECTANCE	70,000 HOURS CONTINOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
	CLOCKWISE VIEW FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN, WHEN LOCKING ROTOR.
	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	N0:
IANI	INU.

DELTA MODEL: PFB0912EHE-T500

3. MECHANICAL:

	3-1.	DIMENSIONS	SEE	DII	MEN	SIONS	S DH	RAWI	NG
	3-2.	FRAME			PLAS	STIC	UL:	94V	7-0
	3-3.	IMPELLER			PLAS	STIC	UL:	94V	7-0
	3-4.	BEARING SYSTEM		Т	WO	BALL	BEA	ARIN	IGS
	3-5.	WEIGHT				2	250	GRA	MS
	3-6.	INGRESS PROTECTION						– II	P55
4.	ENVI	RONMENTAL:							
	4-1.	OPERATING TEMPERATURE		10	Т0	+60	DEG	REI	E C
	4-2.	STORAGE TEMPERATURE	_	40	TO	+70	DEG	REF	E C
	4-3.	OPERATING HUMIDITY				5 T() 90	%	RH
	4-4.	STORAGE HUMIDITY			_	5 T() 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, PBB0s, CFCs, PBBEs, PBDPEs AND HCFCs.

7. PRODUCTION LOCATION

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

PART NO:

DELTA MODEL:

PFB0912EHE-T500

8. BASIC RELIABILITY REQUIREMENT:

- 8-1. THERMAL CYCLING LOW TEMPERATURE: -40°C HIGH TEMPERATURE: +80°C SOAK TIME: 30 MINUTES TRANSITION TIME < 5 MINUTES DUTY CYCLES: 5
- 8–2. HUMIDITY EXPOSURE TEMPERATURE: +25°C ~ +65°C HUMIDITY: 90–98% RH @ +65°C FOR 4 HOURS/CYCLE POWER: NON-OPERATING TEST TIME: 168 HOURS
- 8-3. VIBRATION TEMPERATURE: +25°C ORIENTATION: X, Y, Z POWER: NON-OPERATING VIBRATION LEVEL: OVERALL gRMS=3.2

 FREQUENCY(Hz)
 PSD(G^2/Hz)

 10
 0.040

 20
 0.100

 40
 0.100

 800
 0.002

 1000
 0.002

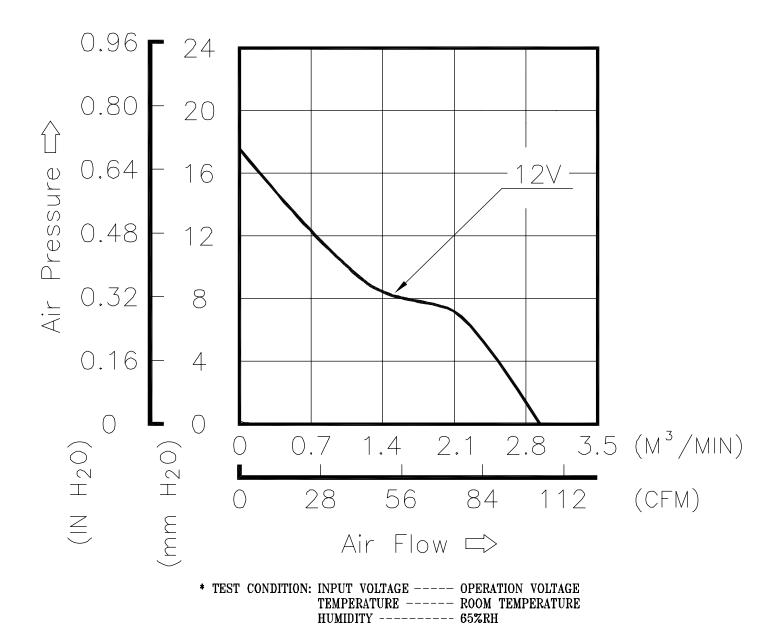
TEST TIME: 2 HOURS ON EACH ORIENTATION

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:	•
DELTA MODEL: PFB0912EHE-T500	•

9.P & Q CURVE:

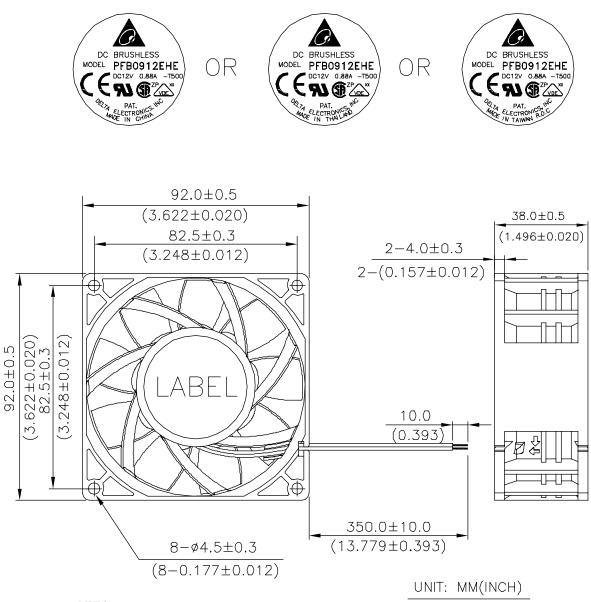


PART NO:

DELTA MODEL: PFB0912EHE-T500

10.Attach: DIMENSIONS DRAWING

LABEL:



NOTES:

- 1. WIRE: UL1007 AWG#24 RED WIRE----(+) BLACK WIRE----(-)
- 2. FOR IP55 PROTECTION, THE MOTOR(PWB+WINDING ASSY) MUST COATED BY PARYLENE WITH THICKNESS 0.005MM (REF.) DELTA P/N 4020158300
- 3. THIS PRODUCT IS ROHS COMPLIANT

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.
- 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 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.
- 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 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DC Fans category:

Click to view products by Delta manufacturer:

Other Similar products are found below :

 614R
 AUB0612L
 AFB0948HH-S687
 G2E085-AA05-10
 4318/12T
 AUB0912H-F00
 3412N/2ME
 W2G110-AM39-01
 8412GLV
 8412NGL

 12
 6448-384
 4114N/17-251
 4318/2R
 4412F/2D
 424JMU
 4414/2HH
 4112 N/12GL-175
 9GA0912F402
 9GA0812B20011

 AFB0824SHBAV1
 DV5214/2NP-230
 9GA0912H4021
 THC1548MGDJJ
 9GA0812B2001
 GFB1224SHG
 8500NU
 9WG1212E101-E

 3241.124
 DC0401012V2B-3T0
 ASFP14391
 ASFP64371
 ASFP64391
 ASFP92391
 9A0612G402
 AD5012HB-C71

 AD5012MB-C71
 ASFP64372
 31100-000440-RS
 ASFP14372
 ASFP16371
 ASFP16371
 ASFP16372
 ASFP40770
 ASFP42770
 ASFP44770

 ASFP64392
 ASFP82392
 ASFP84392
 ASFP92371
 ASFP14372
 ASFP92371