



Specification For Approval

Customer : _____
Description : FAN HEATER 950W 230VAC 50/60Hz
Customer Part No. : _____ Rev. : _____
Delta Model No. : HEH095BA Rev. : 00
Sample Issue No. : _____
Sample Issue Date : NOV.23 2015

Modify History

Rev.	Description	Drawn	Approved	Issue date
00	ISSUE SPEC.	Gavin Chen	Jerry Yang	2015/11/23

Please send one copy of this specification back after you signed approval for production pre-arrangement

Approved by : _____

Date : _____

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

TEL : 886-(0)3-3591968
FAX : 886-(0)3-3591991

Table of contents

1. Description -----	3
1-1. General description -----	3
1-2. Main feature -----	3
1-3. Dimension -----	3
1-4. Configuration -----	4
1-5. Airflow orientation -----	4
2. Electrical specification -----	5
2-1. Power cable installation -----	5
2-2. Multiple sensor for protection -----	5
3. Environmental condition -----	5
3-1. Operating temperature -----	5
3-2. Storage temperature -----	5
3-3. Humidity -----	5
3-4. Protection rating -----	5
3-5. MTBF -----	5
4. Certified safety -----	6
4-1. UL/cUL, TUV, CE -----	6

Specification For Approval

Customer:

Description: FAN HEATER 950W 230VAC 50/60HZ

Customer P/N:

REV.:

Delta model no.: HEH095BA

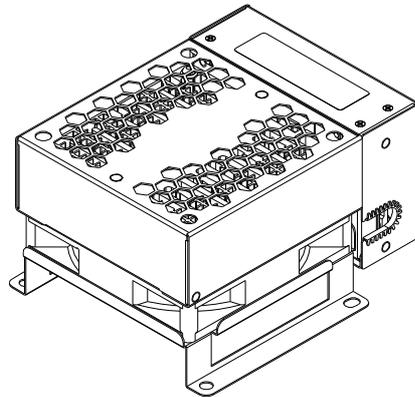
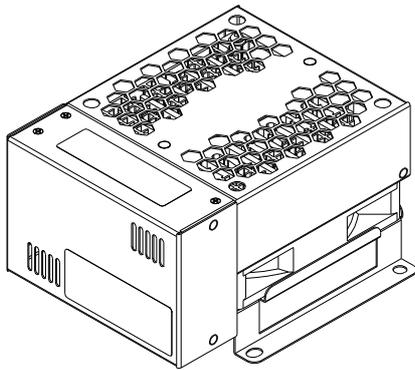
REV.: 00

Sample revision.:

Issue no. :

Sample issue date: 2015/11/18

Quantity : 1 sets



Part no. :

Delta model no. : HEH095BA

1. Description

1-1 General description :

HEH095BA is designed for warming up air inside of the cabinet. It has overheat & short protect function, and keep surface temperature <70°C when running normally, more safe and high reliable product for application.

1-2 Main feature

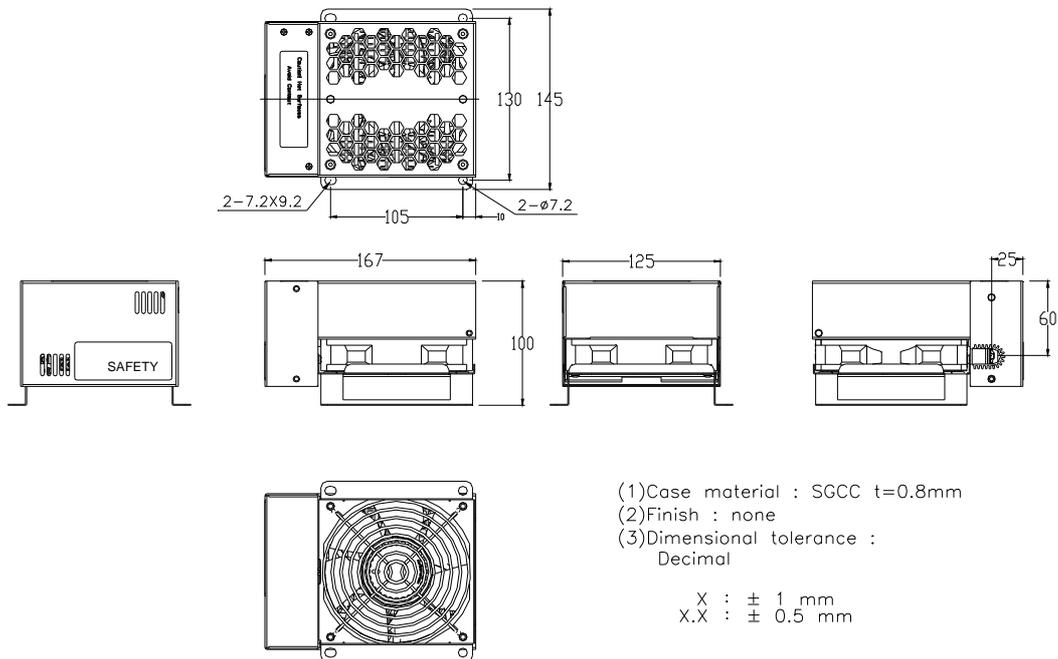
Main feature	Unit	Model number
		HEH095BA
Outline dimension	mm	100 h x 145 w x 167 d
Heating capacity (note 1)	W	950 ± 10%
Airflow rate	CFM	70 (typ.)
Rated voltage	VAC	230. (typ.)
Operating voltage range	VAC	189 ~ 264
Operating temperature range	°C	-40 ~ +35
Current (continuous)	A	< 4.5 (with fan)
Acoustic noise at 1M : (Sound pressure)	dB-A	54.0 (typ.)
Weight	kg	1.5

Note 1: The heating capacity (w) is defined as power consumption.

Part no. :

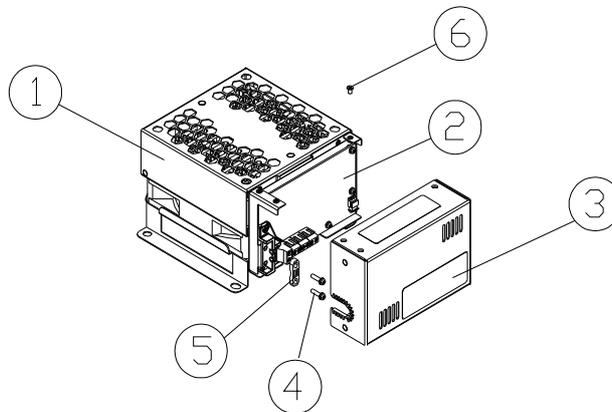
Delta model no. : HEH095BA

1-3 Dimension



1-4 Configuration

HEH095BA is composed by below items



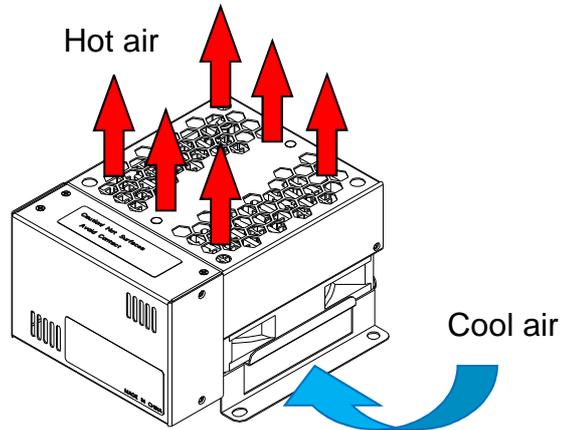
NO.	Q'TY	Description
1	1	HEATER MAIN BODY
2	1	PWBA
3	1	FRONT COVER
4	1	SCREWS FOR CABLE
5	1	CLAMP
6	1	SCREWS FOR COVER

Part no. :

Delta model no. : HEH095BA

1-5. Airflow orientation

The air follow fan airflow orientation, cool air will be drawn from the bottom of heater and through heating element to warm up to hot air, then blow out from top of heater into the system.



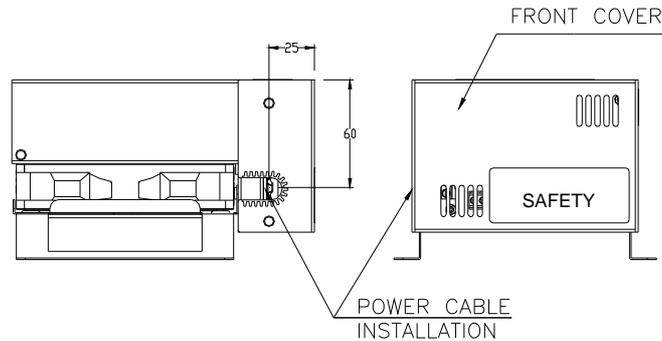
Part no. :

Delta model no. : HEH095BA

2. Electrical specification

2-1. Power cable installation

HEH095BA is without power cable itself, user needs to disassemble front cover to install power cable with terminal block on PWBA.



2-2. Multiple sensor for protection

Thermostat: Detect overheat temperature to shut off the AC power
(switching power on/off)

Thermal fuse: Detect overheat temperature to shut off the AC power
If the fan lock or thermostat failed.

Over current fuse: To avoid power system damaged when electrical circuit short

The shut off spec is shown as below:

Sensor type	Component spec.
Thermostat	85°C
Thermal fuse	167°C
Over current fuse	10A

3. Environmental condition

3-1. Fan operating temperature

-40°C ~ +70°C

3-2. Storage temperature

-40°C ~ +80°C

3-3. Humidity

5 ~ 90% RH, Non-condensing

3-4. Protection rating

IP20

3-5. MTBF

The L10 Fan life is expected to be at least 90,000 hours continuous operation at 40°C with 15 ~ 65%RH

Part no. :

Delta model no. : HEH095BA

4. Certified safety

4-1. UL/cUL, TUV, CE

UL/cUL 60950: E239394

UL/cUL 499: E358666

TUV: R 50308971

CE: R 50308971



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 “ 4.7 μ F or greater” capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.**