



## LIFE TEST & REPORT

<b>Samples:</b>				<b>Test condition:</b>			
<b>Model No.:</b> AB12131V2H		Sample No: AB12131V2H		Quantity: 10 Pcs.		Temperature 70 C°	
<b>Voltage :</b> 230 VDC;		Current: ≤ 0.130 A		Speed: 2,750 ± 10% rpm		Input voltage: 230 VDC	
<b>Samples From:</b> Production				Date Start: 19-Jan-10		Date Finished: 9-Oct-10	
Time Tested :t (Unit:Hrs) 6,240 Hours							

**Method:**

**MTTF** = Mean Time To Failure of a product at a specific temperature(Ts)

- \* Samples powered up in chamber which is set to designated temperature, allowed to burn-in continuously.
- \* Daily monitoring to ensure no failure according to target plan.
- \* Testing stop when target ending date is reached, no failure.

**Calculate** according to the equation for Weibull distribution & Analysis

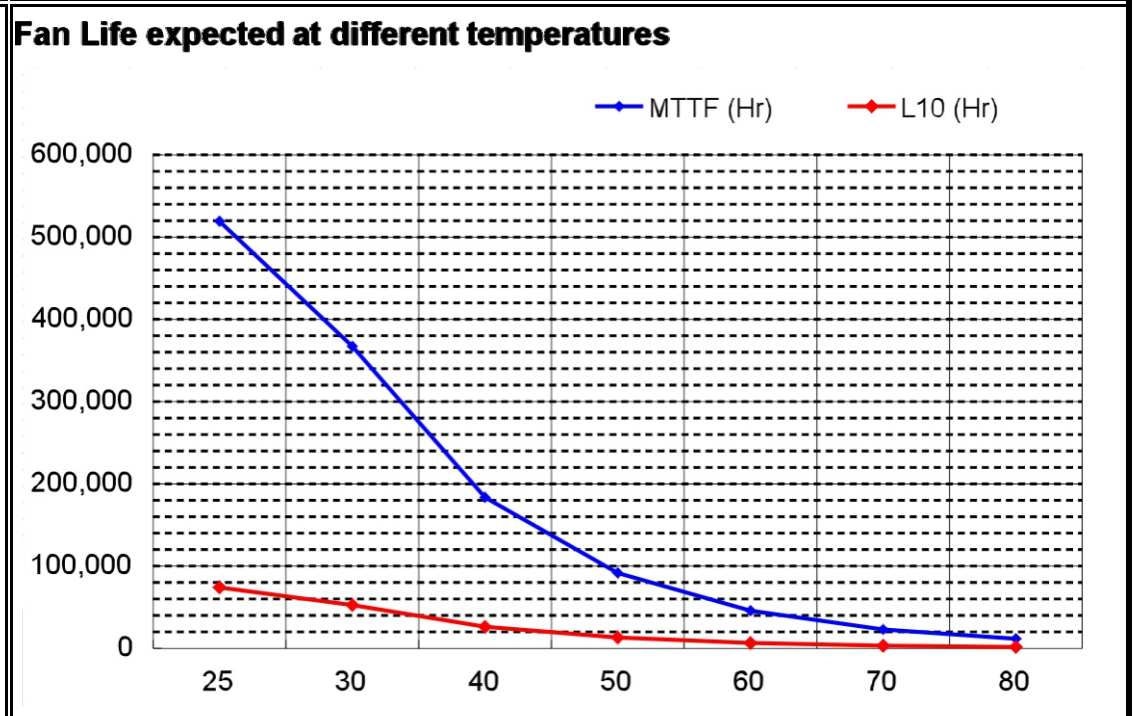
$$MTTF = \frac{t}{1.036 \times (T_R + n)^{0.91}} \times A_F$$

Where:

- t:** Time in hours samples tested
- T<sub>R</sub>:** Confidence level(GEM 90%) = 2.3 at 0 failure
- n:** Samples size
- A<sub>F</sub>:** Accelerate factor =  $2^{\frac{T_s - T_u}{10}}$
- T<sub>s</sub>:** Testing temperature
- T<sub>u</sub>:** Room temperature

Accelerate factor vs Room temperature

Tu(°C)	25	30	40	50	60	70	80
A <sub>F</sub>	45.25	32	16	8	4	2	1



<b>Test result:</b>							
Temperature, Ts	25	30	40	50	60	70	80
MTTF (Hr)	519,144	367,090	183,545	91,772	45,886	22,943	11,472
L10 (Hr)	74,163	52,441	26,221	13,110	6,555	3,278	1,639
Approved & Date:	Cheek by:			Prepared by:			