



LIFE TEST & REPORT

Samples:				Test condition:			
Model No.: AB12131V1HBL	Sample No: AB12131V1HBL	Quantity: 10 Pcs.	Temperature: 70 °C	Input voltage: 115 VDC	Time Tested : t (Unit:Hrs)		
Voltage : 115 VDC;	Current: ≤ 0.290 A	Speed: 3,050 ± 10% rpm	Date Start:	Date Finished:	6,240 Hours		
Samples From: Production			18-Feb-10	8-Nov-10			

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

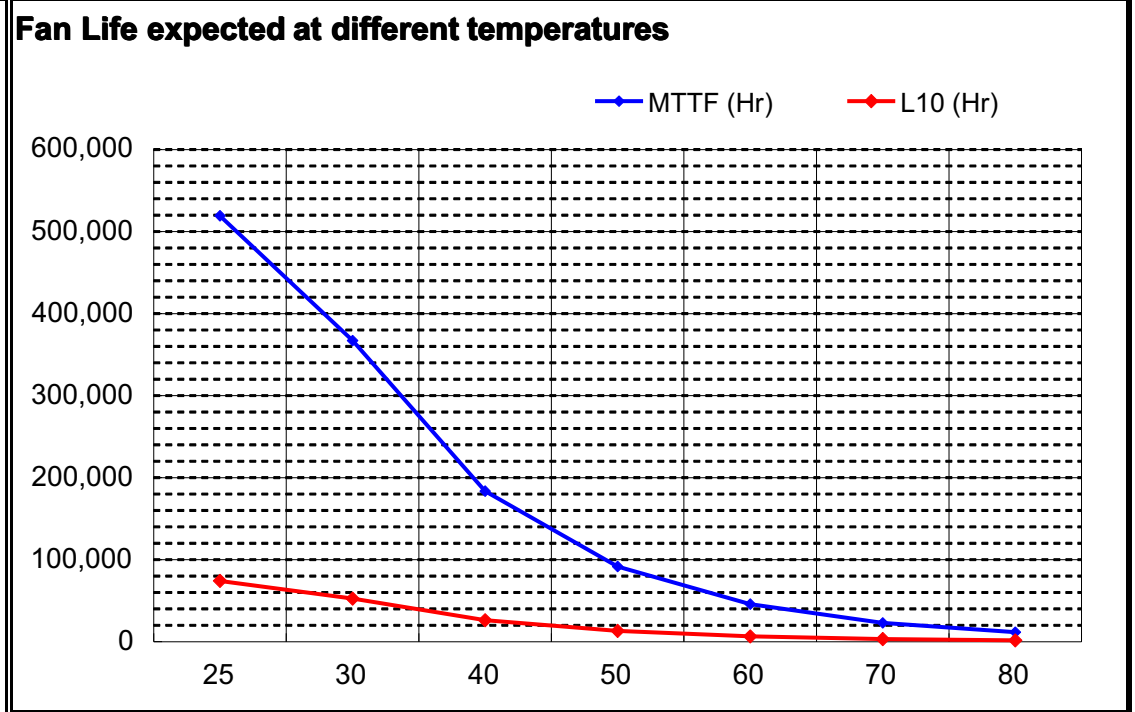
$$MTTF = \frac{t}{1.036 \times (T_R + n)^{0.91}} \times A_F$$

Where:

- t:** Time in hours samples tested
- T_R:** Confidence level(GEM 90%) = 2.3 at 0 failure
- n:** Samples size
- A_F:** Accelerate factor = $2^{\frac{T_s - T_u}{10}}$
- T_s:** Testing temperature
- T_u:** Room temperature

Accelerate factor vs Room temperature

Tu(°C)	25	30	40	50	60	70	80
A _F	45.25	32	16	8	4	2	1



Test result:

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: _____