

DC FAN LIFE EXPERIMENT REPORT

				ASB0412SA-00				
Available for these models with be followed by Rxx or Fxx series			•	ASB0405SA-00				
series as the right table								
Representative Test P/N:	ASB0412SA-0	0						
Equipment: 1.Oven: F00-			W GPC-3060D					
	L10				ed voltage and	the temneratuu	re of 40°C	
,		,		ium e iam iav	O	L10 =	420,000	hours
According to the equation				ostina taahniay		L10 –	420,000	nours
And we rely on a zero fa				0 1	e, to determine			
the total test time (t) for	•		•	•				
	t =	1.036 x MTTF	Tx [(Br;c)/ n]	^0.91 /AF, an	$\mathbf{AF} = 2^{A}(\mathbf{Ts})$	Tu)/10		
where, $(B_{r,c})$ is Poisson of	listribution fac	tor with the fail	ure number of	r equal to 0 an	nd			
the decimal confidence le	evel of c equal	to 0.90(90%).						
Stress/Elevated Temperature	Unstress	Acceleration	Quantity of Test	Poisson	Required test time	Actual test time	Verified MTTF	Verified L10
Ts (°C)	Temperature	Factor	Devices	Distribution Factor	with zero failure	with zero failure	40°C	40°C
(Actual Test Temperature)	Tu (°C)	$\mathbf{A_F}$	n (pcs)	B _{r;c}	t (hours)	t (hours)	(hours)	(hours)
90	40	32.00	25	2.303	1,552	7,123	1,927,042	275,292
Test Progress:								
		Date for Test	Termination				Current Total Test	
Date for Test Beginning		(at least)		C	urrent Test Sta	tus	Time (hours	
13-Mar-18		3-Aug-18		In process	In process (exceed requested)	Termination	7,123	
						ı	Ī	ī
Herewith, we could assum	e as right on the	basis of above t	est result. Besi	des, if the actual	Temperature for MTTF Estimation	Acceleration Factor A _F	Estimated MTTF (hours)	Estimated L10 (hours)
test time exceed the require greater than the warrant. (•				25	90.51	5,450,497	778,642
non-repairable system setti we will not repair the failed	ng. Now we sho	ow the MTTF in	30	64.00	3,854,083	550,583		
Between failures, it should	•	•	40	32.00	1,927,042	275,292		
					50	16.00	963,521	137,646
					60	8.00	481,760	68,823
Fan acceptance criteria for the	70	4.00	240,880	34,411				
 Speed can not decrease ≥ 1 Current cannot increase > 	90	1.00	60,220	8,603				
3. Noise cannot increase >3d	Test Result		V	Accept				
					Test I	Kesuit		Reject
QE File No.		function test s (hours)	Date	of issue	Repor	ted By	Approved By	
TH18FNL004	TH18FNL004 1,445 5-N		ar-19	Natthichakorn		Niranam		



DC FAN FUNCTION TEST RECORD FOR CUSTOMIZED LIFE EXPERIMENT

hese models with	h lower speed and san	ne physical structure	- All model may	ASB0412SA-00									
be followed by Rxx or Fxx series suffixes. This test report applies to ASB 40x40x10mm													
ght table													
Required Test Time Doto for Test Posinning			Date for Test		Sample Size	Failure	Current Tota	l Test Time					
rs)	Date for Test	i Deginning	Termi	nation	(pcs):	(pcs):	(hrs)						
1,552 13-Mar-18		ır-18	3-Aug-18		25	0	7.12	7,123					
13 1741 10			1		-	,							
Representative Test P/N: ASB0412SA-00				Current T	est Status	In p	(exceed ocess iested)	Termi 1					
Equipment: 1.Oven: F00-5, E24-T060 2. DC Source: GW GPC-													
Test Data Between Initial Test and Final Test													
Initial Test	Final Test	Davistion	Initial Test	Final Test	Daviation	Initial Test	Final Test	Daviation					
Current Spec.	Current Spec.	Deviation	Speed Spec.	Speed Spec.	Deviation	Noise at 1 m	Noise at 1 m	Deviation					
Max (mA)	Max (mA)	(%)	REF (RPM)	REF (RPM)	(%)	Max (dB A)	Max (dB A)	dB					
110	110	+15% Max	8000	8000	-15% Max	38.5	38.5	+3 dB Max					
56	62	10.9	7803	7930	1.6	33.2	32.2	-1.0					
55	61	11.3	7910	8223	4.0		31.6	-2.2					
55								-1.9					
-								-1.4					
								-2.5					
								-1.6					
								-1.3					
								-2.0					
-								-2.0					
								-0.5					
-								-1.7					
								-1.8					
								-1.8					
								-1.0					
								-1.5					
55	58		8014	8218		33.8	32.5	-1.3					
	60	11.9	7878	8097	2.8	33.6	32.6	-1.0					
55	62	12.2	7866	7982	1.5	34.0	32.4	-1.6					
55	57	3.1	7791	8017	2.9	33.5	32.5	-1.0					
56	63	11.8	7775	8003	2.9	32.8	32.7	-0.1					
54	61	13.0	7847	7935	1.1	33.5	31.8	-1.7					
58	65	12.6	7724	7977	3.3	33.3	31.9	-1.4					
55	61	10.2	7681	7906	2.9	33.2	32.3	-0.9					
57	64	11.6	7811	8146	4.3	33.2	32.5	-0.7					
56	63	12.3	7895	8000	1.3	33.7	32.6	-1.1					
54.92	61.25	-	7852	8035	-	33.5	32.2	-					
1.32	1.95	-	91	94	-	0.4	0.4	-					
QE File No. or oth		(hours)	Date of issue		Reported By		Approved By Niranam						
	Rxx or Fxx sericht table Test Time (rs) 52 tive Test P/I Initial Test Current Spec. Max (mA) 110 56 55 55 55 55 55 55 56 56 5	Test Time (rs) Date for Test (rs) 52	Date for Test Beginning State St	Date for Test Beginning Date for Set	Date for Test Beginning Simulation Sim	Date for Test Beginning Date for Test Sample Size (pcs):	Pest Time Pate Pa	Date for Test Fail Test Final Test Deviation Speed Spec. Current S					