

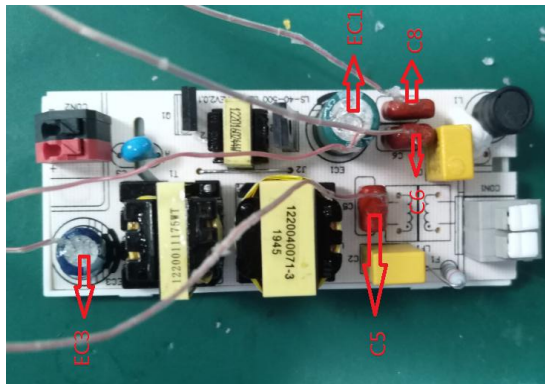
Temperature Rise Test Report

Product Information

Product:	LED Driver	Tester:	
Part No.:	LS-40-650 LI2	Test Date:	2020/7/17
Ambient Temp.(°C):	25	Ambient humidity:	65.0%

Data Record

Driver Information:		Model:		LS-40-650 LI2				Factory:		Eaglerise Electric & Electronic (China) Co., Ltd.			
Test Requirement:		Testing of component temperature rise at minimum operating voltage, rated operating voltage, maximum operating voltage, the test data shall include ambient temperature and 45°C data, and all data shall be tested in the final operating environment. The external power supply is to be tested in a matching case, and the internal power supply is to be tested in a matching whole lamp. Also attached is a photo after temperature measurement and dispensing.											
Temp. in the Oven(°C)		25						45					
Input Voltage(V)		AC176V		AC230V		AC264V		AC176V		AC230V		AC264V	
Component	Designation	Temp.	Δt	Temp.	Δt	Temp.	Δt	Temp.	Δt	Temp.	Δt	Temp.	Δt
Film capacitor	C5	57.5	32.5	56.7	31.7	57.7	32.7	77.2	32.2	76.3	31.3	77.3	32.3
Film capacitor	C6	58.9	33.9	56.7	31.7	56.6	31.6	78.5	33.5	76.5	31.5	76.2	31.2
Film capacitor	C8	56	31	54.1	29.1	54.1	29.1	75.8	30.8	74	29	73.8	28.8
Electrolytic capacitor	EC3	57.2	32.2	57	32	58.2	33.2	77	32	76.8	31.8	77.6	32.6
Electrolytic capacitor	EC1	57.7	32.7	56.5	31.5	56.9	31.9	77.4	32.4	76.1	31.1	76.5	31.5
	Max.	58.90	33.90	57.00	32.00	58.20	33.20	78.50	33.50	76.80	31.80	77.60	32.60



Item	Model Model	To	Rated Lifetime	I _o	I _x	Actual temperature rise	ΔT _o	ΔT _x	L _X (hrs)	L _X (year)
Electrolysis EC3	150uf 50v 8*12	105	6000	130	123	77.8	5	3.00	52163	5.95
Electrolysis EC1	10uf 450v 10*16	105	6000	1950	1624	77.6	5	3.00	52891	6.04

Summary: At a ring temperature of 45°C, the life of the power supply is >50000H.

Auditor _____

Review Date 2020.7.20 _____

Life Estimation Formula for the Capacitors

$$L_x = L_o \times 2^{(T_o - T_x)/10} \times 2^{(\Delta T_o - \Delta T_x)/5}$$

L_x=lifetime(hours)of the capacitor to be estimated

L_o=Base (Assured)lifetime (hours)of the capacitor

T_o=Maximum rated operating temperature(°C)



T_x =Actual ambient temperature of the capacitor within device

(this is not the environment temperature of the device, but the environment temperature of the capacitor that has been placed within the device, details as note 2)
实际环境温度.

ΔT_o =Rise in core temperature of the capacitor due to rated (permissible) maximum ripple current.

ΔT_x =Actual rise in the core temperature of the capacitor due to actual ripple current at device operating conditions.

$$\Delta T_x = \Delta T_o \times (I_x / I_o)^2$$

Where: I_o =rated rms ripple

I_x =Actual rms ripple