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# **SPECIFICATION**

MODEL: STIFP218740N024KOR

CUSTOMER:	
CHECKED	APPROVED
20	20

SAMSUNG				
DRAWN	СНЕ	APPROVED		
DRAWN	SALES	QA	APPROVED	
20	20	20	20	

SAMSUNG ELECTRONICS CO,. LTD. SAMSUNG #2, NONGSEO-DONG, GIHEUNG-GU, YONGIN-CITY, GYEONGGI-DO, KOREA, 446-711

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# REVISION OF SPECIFICATION

	00	The First Specification established.		2013.07.22	SC.Kwon	CH,Baek
SYMBOL	REV	REVISION	PAGE	DATE	TRACED	APPRO.

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### 1. APPLICATION

This specification defines the general specification and performance of the Non Dimming driver.

### 2. FUNDAMENTAL SPECIFICATION

No.	ARTICLE	SPECIFICATION	
2-1	PSU (Power Supply Unit)	<ul> <li>Dimensions: 212 × 41 × 30.5mm(length / Width / Height) (Tol: ±2.0mm)</li> <li>Input Power Maximum Consumption (50W)</li> <li>Input Voltage (220Vac ~ 240Vac)</li> <li>Output Current (40W: 700mA ± 5%)</li> <li>Output Voltage (24Vdc)</li> </ul>	
2-2	Weight	· 220 ± 30g	
2-3	Ambient Temperature (Ta)	· -20[°C] ~ +50[°C], Surrounding Temp. of LED Driver within Fixture	
2-4	Storage Temperature	40[℃] ~ 85[℃]	
2-5	Listings	· CE / ENEC / VDE / KC	
2-6	EMI	• EN55015	
2-7	Surge	· IEC 61547	
2-8	Hi-Pot	· IEC 61347-1 , IEC 61347-2-13	
2-9	Hazardous Substances in Products	· RoHS compliant, REACH , WEEE	
2-10	Lifetime	· 50,000hr(MTBF)	

### 3. APPEARANCE AND STRUCTURE

No.	ARTICLE	SPECIFICATION
3-1	Appearance	See the Appendix 1
3-2	Structure	See the Appendix 1

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### 4. PERFORMANCE

- Electric Specification

No.	ARTICLE	SPECIFICATION					TION
		Symbol	Min.	Тур.	Max.	Unit	Remarks
4-1	Power Consumption	P	35	40	45	W	Vac=240V/50Hz @24.0V, measured with electronic load
4-2	Input Current	I	0.13	-	0.25	A	Each channel Vac=240V/50Hz @24.0V
4-3	Output Current	Io	665	700	735	mA	Each channel Vac=240V/50Hz @24.0V
4-4	Output Voltage	Vo	20	24	26	Vdc	Each channel
4-5	Efficiency	-	84	87	-	%	Vac=240V/50Hz @24.0V
4-6	Power Factor	PF	0.9	-	-	-	Vac=240V/50Hz @24.0V
4-7	THD	%	-	10	15	%	Vac=240V/50Hz @24.0V
4-8	Turn On Time				0.5	sec	Vac=240V/50Hz @24.0V, measured with electronic load
4-9	Ripple Current				30	%	Output current ± 30%
4-10	Inrush current	Ipeak			20	A	
4-10	illiusii current	Tduration			300	μs	@50% of Ipeak
4-11	No load Power consumption	-	-	-	1	W	@no load
4-12	O.V.P	-	1	-	43	V	Auto Recovery
4-13	O.T.P	-	-	-	150	°C	Auto Recovery
4-14	Ambient Temperature	-	-20	-	50	C	
4-15	Case Temperature	-			85	$^{\circ}$	Case of LED Driver
4-16	Lifetime(E-cap)		50,000			hour	MTBF

\* Keep the same Tc with fixture or without fixture

\* E-Load Condition : LED & CR Mode

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### - Final Test Items

No.	ARTICLE	SPECIFICATION					
		Symbol	Min.	Тур.	Max.	Unit	Remarks
4-1	Power Consumption	P	35	40	45	W	Vac=240V/60Hz @24V
4-2	Output Current	Io	665	700	735	mA	2 channel
4-3	Output Voltage	Vo	20	24	26	Vdc	2 channel
4-4	Efficiency	-	84	87	-	%	Vac=240V/60Hz @24V
4-5	Power Factor	PF	0.9	-	-	-	Vac=240V/60Hz @24V
4-6	THD	%	-	10	15	%	Vac=240V/60Hz @24V

<sup>\*</sup> All Test Results are recorded with 100% Products

<sup>※</sup> E-Load Condition: LED & CR Mode

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### 5. STANDARD TESTING CONDITION

### 5-1 Standard testing environment

Generally all tests are performed in normal room temperature and humidity. If the problem occurs, re-tests are performed at 25±3°C and 60±5% relative humidity.

### 5-2 Standard testing method

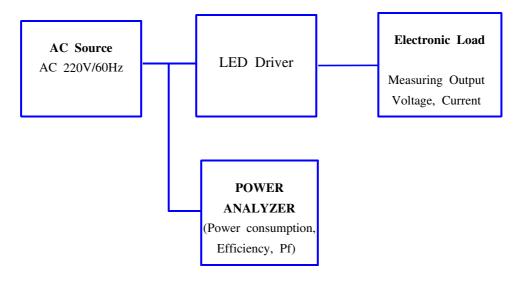
#### 1) Testing equipment

Type	Company	Model (Reference)	
AC Input Driver	Chroma	AC Source 61504	
Power Consumption YOKOGAWA YOKOGAWA		PRECISION POWER ANALYZER WT3000	
Electrical Load	Chroma	DC Electronic Load 63110A	

### 2) Testing equipment Condition

Measuring Equipment	Condition
AC Source	AC 220V / 60Hz
DC Electronic Load	DC Electronic load, @ 24.5V, LED & CR Mode

### 3) Measurement Method



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### 6. PRECAUTIONS IN HANDLING

1) This LED Driver is only for 45W Non Dimming driver.

#### 2) Handling

To prevent the LED Driver from any defect, please handle it with care as follows.

- a. Don't drop the unit and don't give the unit any shocks.
- b. Don't store the product in a dusty place or room.
- c. Don't take the product apart.
- d. Don't pull wire with hand in case of carry or move the product.

#### 3) Static Electricity

Static electricity or surge voltage damages the LED Driver. Please keep the working process anti-static electricity condition to prevent the luminaire from damage.

- a. Anyone who handles the unit should be well grounded. (earth ring or anti-static glove)
- b. Anyone who handles the unit should wear anti-electrostatic working clothes.
- c. All kinds of device and instruments, such as working table, measuring instruments and assembly jigs in production line should be well grounded.

#### 4) Others

- a. If over voltage which exceeds the absolute maximum rating is applied to LED Driver, it will cause damaging circuits and result in malfunction.
- b. Do not use the mixed polarity of Ch1 and Ch2.

Module Interface			
Module1		Module2	
Ch1 +	Ch1 -	Ch2+	Ch2-

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### 7. TERMINAL INFORMATION

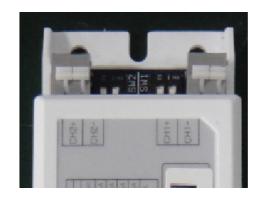
### 1) Input Interface

PIN	SYMBOL	COLOR	DESCRIPTION
1	Live	Gray	AC Input
2	Neutral	Gray	AC Input
3	NC	Gray	No Connect
4	P.E	Gray	Protective Earth



### 2) Output Interface

PIN	SYMBOL	COLOR	DESCRIPTION
2	CH2 +	Gray	Positive(Anode) LED output(CH2+)
1	CH2 -	Gray	Negative(Cathode) LED output(CH2-)
3	CH1 +	Gray	Positive(Anode) LED output(CH1+)
4	CH1 -	Gray	Negative(Cathode) LED output(CH1-)



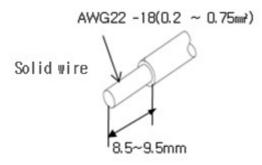
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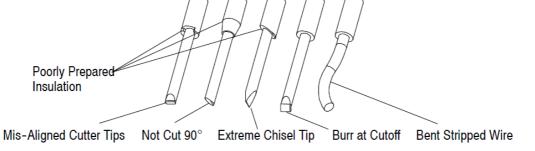
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### 8. WIRE SELECTION AND PREPARATION

### 1) Acceptable



### 2) Non-Acceptable



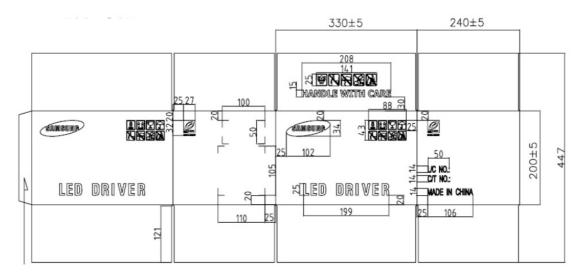
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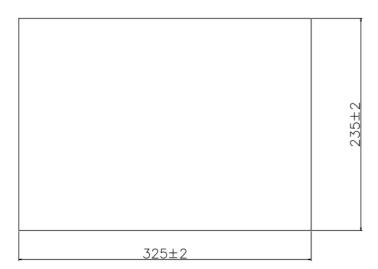
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### 9. PACKING SPECIFICATION

### 1) Out Box



### 2) Nil-Pad

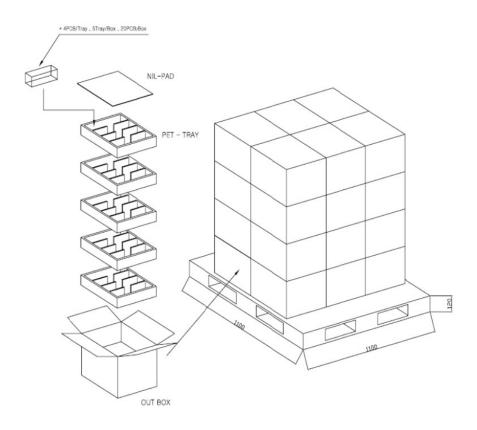


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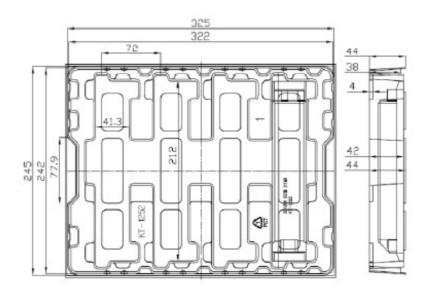


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### 3) Stock Pattern



### 4) Tray



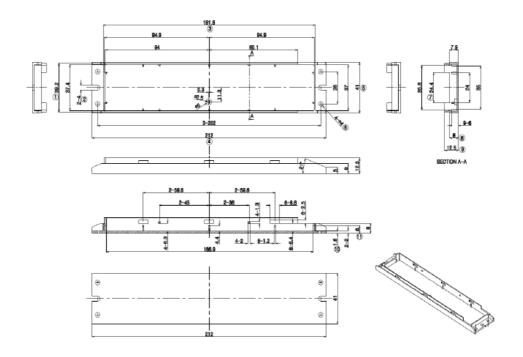
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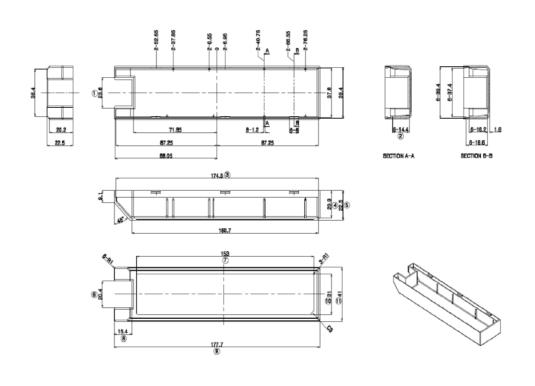
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### APPENDIX 1. Appearance Drawing (in mm)

### 1) Housing



### 2) Cover



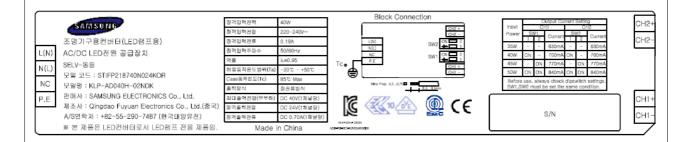
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### **APPENDIX 2. Label Drawing**

1) Main Label



#### 2) Barcode Label

