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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## LED Driver

# High-bay 75W Programmable Driver



## Constant Current LED Driver Wide Operating Range up to 1.4 A – Programmable



### Features & Benefits

- Output Current Range: Max 1.4 A (adjustable via programmer)
- Output Voltage Range: 27 ~ 54 Vdc
- Output Power Range: Max 75 W
- Dimming Control: 0-10 V
- Input Voltage: 100 ~ 277 Vac, 50/60 Hz
- Safety: UL / cUL ( UL 8750, UL Class 2), EN61347
- EMI: FCC Part 15 Class B
- Protections: Short Circuit, Over Temperature, Over Voltage ( No Load Protection )
- $t_a$  Range: -40 ~ +60 °C
- Expected lifetime: 50,000 hours at  $t_a = 75$  °C
- Long lasting & high reliability
- Slim metal housing
- Easy setting current

### Applications

- Indoor High-bay lighting
- Parking lot lighting

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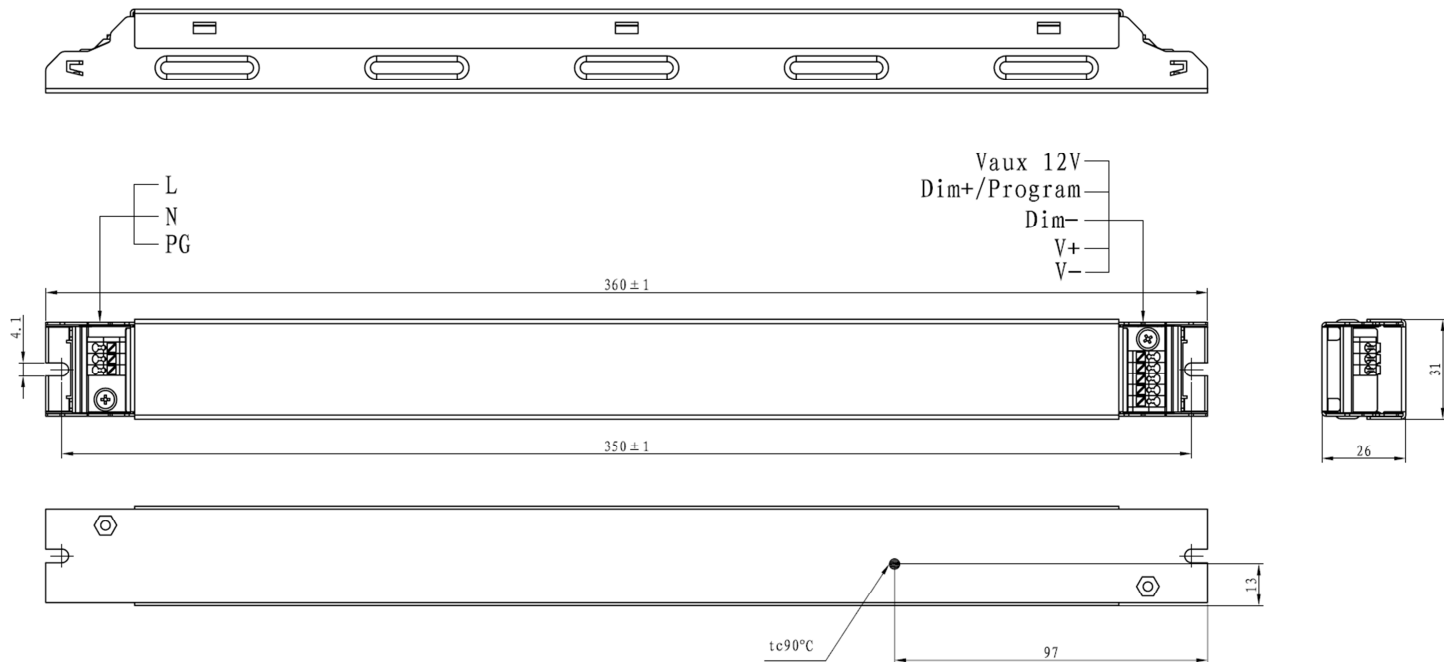
## 1. Characteristics

Article	Symbol	Specification			Unit	Note
		Min.	Typ.	Max.		
<b>INPUT SPECIFICATIONS</b>						
Nominal Voltage	V <sub>in</sub>	100 ~ 277			Vac	Full input range, no range switching
Voltage Range		90		304	Vac	
Nominal Frequency	f <sub>in</sub>	50 / 60			Hz	
Frequency Range		47		63	Hz	
Input Current	At 110 Vac	l <sub>in</sub>		1	A	At full load
	At 277 Vac	l <sub>in</sub>		0.4	A	At full load
Total Harmonic Distortion	THD			20	%	At 110-277 Vac
Power Factor	PF	0.9			-	At 110-277 Vac
Efficiency			85		%	At full load, 110 Vac, 60 Hz
			88		%	At full load, 277 Vac, 60 Hz
Protection Class			2		-	
In-rush Current				65	A <sub>pk</sub>	@ 277Vac input, 25°C Cold start.
<b>OUTPUT SPECIFICATIONS</b>						
Nominal Voltage	V <sub>o</sub>	27 ~ 54			Vdc	at I <sub>o</sub> = Max 1.4 A
Max. Voltage				60	Vdc	Open circuit, No-load protection
Nominal Current	I <sub>o</sub>			1.4	A	±5 %, Can be programmable
Nominal Power	P <sub>o</sub>			75	W	At I <sub>o</sub> = Max 1.4A, V <sub>o</sub> = 54 V
Turn-on Delay Time	T <sub>d</sub>			1	s	At full load, 100 Vac input

Article	Symbol	Specification			Unit	Note
		Min.	Typ.	Max.		
<b>DIMMING SPECIFICATIONS</b>						
Dimming Control		0-10 V				See Dimming Specification section
<b>ENVIRONMENTAL SPECIFICATIONS</b>						
Ambient Temperature	ta	-40		60	°C	
Case Temperature	tc			90	°C	Type TL 90°C / 73°C
Storage Temperature	ts	-40		85	°C	
Storage Humidity		10		95	%	Not condensing
Surge Transient Protection	L / N			±4	kV	According to IEC/EN 61547
	LN / GND			±6	kV	
IP Rating		20			-	Suitable for indoor environment
Expected Lifetime (e-cap)		50,000			h	At t <sub>c</sub> = 75 °C, full load, 120-277 Vac
MTBF		250,000			h	At t <sub>a</sub> = 25 °C, full load,
Dimensions	L x W x H	14.1 x 1.2 x 1.0			inch	
		360 x 31 x 26			mm	
Net Weight		300			g	± 15 g

## 2. Outline Drawing & Dimension

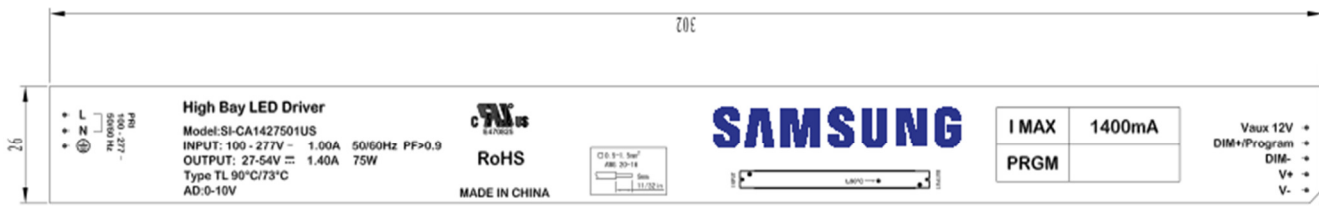
### Dimension (mm)



PIN	SYMBOL	COLOR	DESCRIPTION	CONNECTOR
1	L	Black	Live	PHOENIX CONTACT
2	N	White	Neutral	
3	PG	GREEN	GND	

PIN	SYMBOL	COLOR	DESCRIPTION	CONNECTOR
1	Vaux 12V	Yellow	Auxiliary 12V	PHOENIX CONTACT
2	Dim+/Program	PURPLE	External Dimming Input Port(0~10V)	
3	Dim-	GREY	External Dimming Input Port(Ground)	
4	V+	RED	LED output +	
5	V-	BLUE	LED output -	

## 3. Label Structure

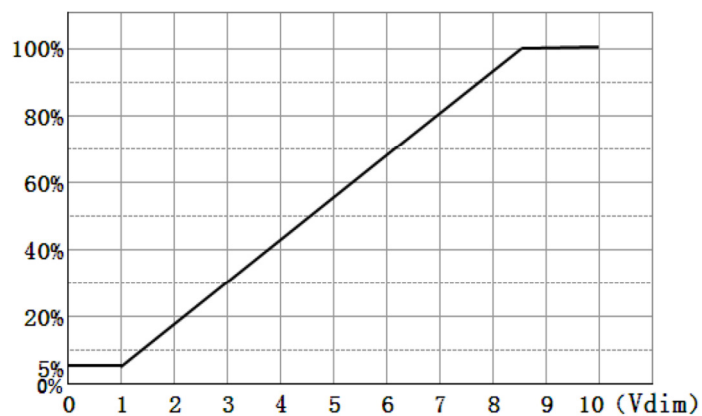




#### 4. Current Setting

1) Control Type : 0-10V

ARTICLE	SYMBOL	UNIT	MIN	TYP.	MAX	REMARKS
Dimming	Range	Vdc	0	-	10	
	Dim. MIN	Vdc	-	-	1	0 ~ 1V Constant
	Dim. MAX	Vdc	-	-	8.5	



2) Programmable current setting

The programmable driver can be programmed by using the special PC S/W and the programmer module.

Application guide for programmer is located SAMSUNG LED homepage.



# Legal and additional information.

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