

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LED Driver

High-bay 96 W Programmable Driver SI-CA2029601US



Constant Current LED Driver Wide Operating Range up to 2.0A – Programmable



Features & Benefits

Output Current Range: Max 2.0 A (adjustable via programmer)

Output Voltage Range: 24 ~ 48 Vdc
 Output Power Range: Max 96 W
 Dimming Control: 0-10 V

Input Voltage: 110 ~ 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: $-40 \sim +60 \,^{\circ}$ C

Expected lifetime: 50,000 hours at t_c = 75 °C

Long lasting & high reliability

Slim metal housing

Easy setting current

Applications

- Indoor High-bay lighting
- · Parking lot lighting



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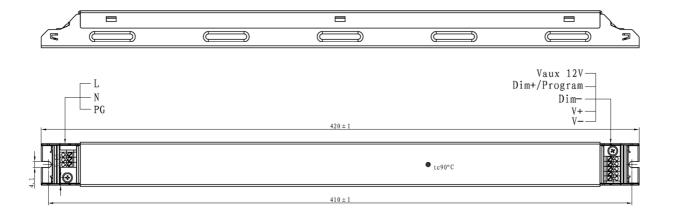
1. Characteristics

Article			Specification				
		Symbol	Min.	Тур.	Max.	Unit	Note
INPUT SPECIFICATIONS							
Nominal Voltage		Vin		100 ~ 277		Vac	Full input range, no range switching
Voltage Range			90		304	Vac	
Nominal Frequency		Fin		50 / 60		Hz	
Frequency Range			47		63	Hz	
Input Current	At 110 Vac	lin			1.3	Α	At full load
присоптеп	At 277 Vac	lin			0.45	А	At full load
Total Harmonic Distor	Total Harmonic Distortion				0	%	At 120-277 Vac
Power Factor		PF	0.9			-	At 120-277 Vac
Efficiency		η		85 88		%	At full load, 110 Vac, 60 Hz At full load, 277 Vac, 60 Hz
Protection Class				2		-	
In-rush Current					65	A _{pk}	@ 277Vac input, 25°C Cold start.
OUTPUT SPECIFICA	TIONS						
Nominal Voltage		Vo		24 ~ 48		Vdc	at Io = Max 2.0 A
Max. Voltage					60	Vdc	Open circuit, No-load protection
Nominal Current		lo			2.0	Α	±5 %, Can be programmable
Nominal Power		Ро			96	W	At Io = Max 2.0 A, Vo = 48 V
Turn-on Delay Time		Td			1	s	At full load, 100 Vac input

Article		Cumbal		Specification				
Article		Symbol	Min.	Тур.	Max.	Unit	Note	
DIMMING SPECIFICATI	ONS							
Dimming Control				0-10 V			See Dimming Specification section	
ENVIRONMENTAL SPECIFICATIONS								
Ambient Temperature		ta	-40		60	°C		
Case Temperature		tc			90	°C	Type TL 90°C / 65°C	
Storage Temperature		t _s	-40		85	°C		
Ambient Humidity			10		95	%	Not condensing	
Surge Transient	L/N				±4	kV	According to IEC/EN 61547	
Protection	LN / GND				±6	kV		
IP Rating				20		-	Suitable for indoor environment	
Expected Lifetime (e-cap))		50,000			h	At t _c = 75 °C, full load, 120-277 Vac	
MTBF			250,000			h	At t _a = 25 °C, full load	
6.		LxWxH		16.5 x 1.2 x 1.0		inch		
Dimensions		LXVVXH	420 x 31 x 26		mm			
Net Weight				400		g	± 20 g	

2. Outline Drawing & Dimension

Dimension (mm)





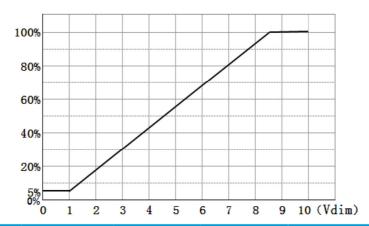
Pin	Symbol	Color	Description	Connector
INPUT CONNECTOR				
1	L	Black	Live	
2	N	White	White Neutral	
3	PG	Green	Ground	
OUTPUT CONNECTOR				
1	Vaux 12V	Yellow	Auxiliary 12V	
2	Dim+/Program	Purple	External Dimming Input Port(0~10V)	
3	Dim-	Grey	External Dimming Input Port(Ground)	PHOENIX CONTACT
4	V+	Red	LED output +	
5	V- Blue LED output -			

3. Label Structure



4. Current Setting

1) Control Type: 0-10V



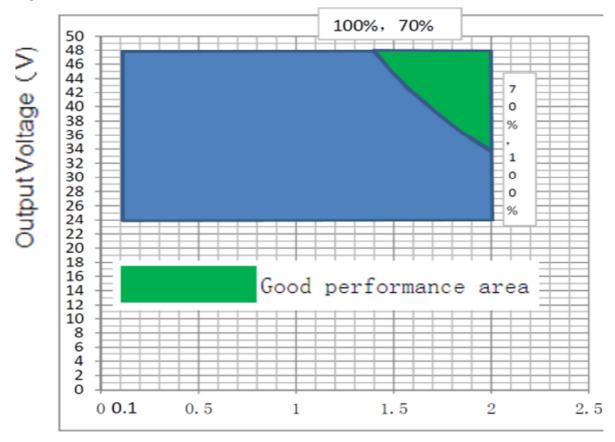
Article	Symbol	Unit	Min	Тур	Max	Remark
	Range	Vdc	0	-	10	
Dimming	Dim. MIN	Vdc	-	-	1	0~1V Constant
	Dim. MAX	Vdc	-	-	8.5	

2) Programmable current setting

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



3) Operating Window



Output Current (A)

Legal and additional information.

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