imall

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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SERIES: PLDA60 | DESCRIPTION: LED DRIVER

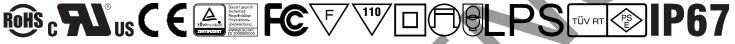
FEATURES

- up to 60 W continuous power
- universal input range (90~305 Vac)
- single/dual output
- dimming options: PWM, 1~10 Vdc, resistive, DALI
- power factor correction ≥ 0.9
- constant current
- low profile for easy installation
- IP67 rated

- over voltage, continuous short circuit, and over temperature protection
- UL 8750, IEC/EN61347-2-13 approval
 EN61000-3-2 Class C (harmonic current) approval
- efficiency up to 86%
- suitable for LED lighting and signage applications
- 67 rated



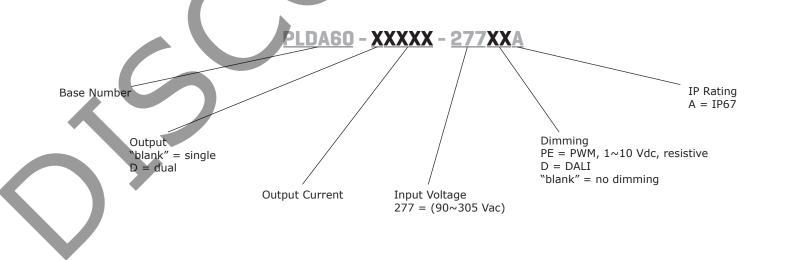
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MODEL	output ran	-		output current	output power	ripple and noise ²	efficiency	
	min (Vdc)	max (Vdc)		(mA)	max (W)	max (mVp-p)	typ (%)	
PLDA60-1250-277	9	48		1250	60	480	86	
PLDA60-1666-277	9	36		1666	60	360	85	
PLDA60-2500-277	9	24		2500	60	240	85	
PLDA60-D625-277	9	48	Io1 Io2	625 625	30 30	480	87	
PLDA60-D833-277	9	36	Io1 Io2	833 833	30 30	360	85	
PLDA60-D1250-277	9	24	Io1 Io2	1250 1250	30 30	240	85	

Notes: 1. constant current region 2. ripple and noise are measured at 20MHz bandwidth with a 0.1uF ceramic capacitor and 10uF aluminum capacitor.

PART NUMBER KEY



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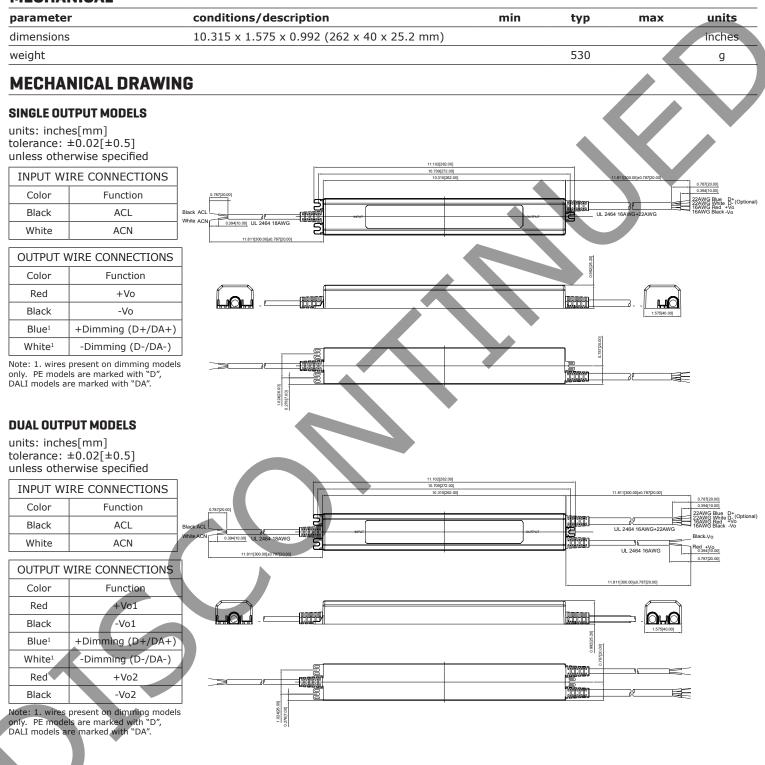
INPUT

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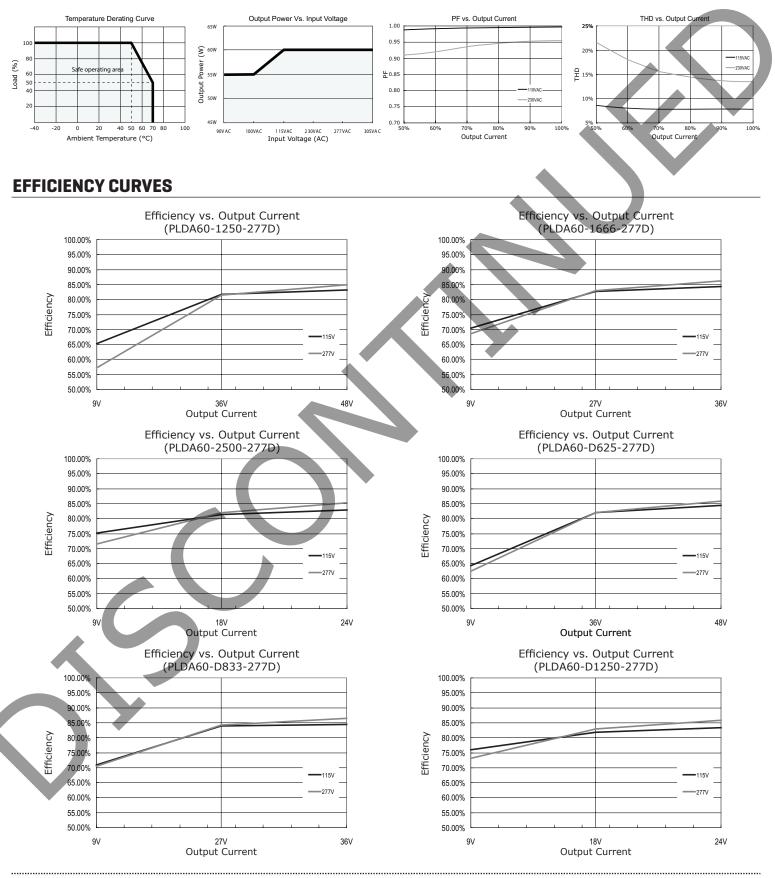
parameter	conditions/description	min	typ	max	units
voltage		90 127		305 420	Vac Vdc
frequency		50		60	Hz
current	at 115 Vac, full load at 230 Vac, full load		0.69 0.32		A A
inrush current	at 240 Vac, cold start, 25°C, after 100 µs			5	A
leakage current	at 277 Vac			0.75	mA
power factor correction	at 115 Vac/230 Vac, 75~100% load	0.9			
no load power consumption				1	W
OUTPUT					
parameter	conditions/description	min	typ	max	units
current line regulation	measured from high line to low line at full load			±5	%
current load regulation	measured from min. to max. of constant current region			±5	%
constant current accuracy	at nominal input and full load			±5	%
switching frequency			60		kHz
start-up time	at 90 Vac			0.5	S
temperature coefficient			±0.05		%/°(
PROTECTIONS					
parameter	conditions/description	min	typ	max	units
over voltage protection	TVS clamp				
short circuit protection	hiccup mode, auto recovery				
over temperature protection			105		°C
SAFETY & COMPLIAN	ICE				
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output, for 1 minute			3,750	Vac
isolation resistance	input to output	100			MΩ
safety approvals	UL8750, IEC/EN61347-1, IEC/EN61347-2-13, PSE				
DALI	IEC62386-102, IEC62386-207				
EMI/EMC	FCC Part 15 Class B/EN55015, EN61547, EN61000-4 EN61000-3-2 Harmonic Class C, EN61000-3-3	4-(2,3,4,5,6,8	3,11),		
MTBF	as per MIL-HDBK-217F, at 25°C		200,000		hours
RoHS	2011/65/EU				
ENVIRONMENTAL					
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-40		70	°C
storage temperature		-40		85	°C
operating altitude				3,000	m

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MECHANICAL



DERATING CURVES

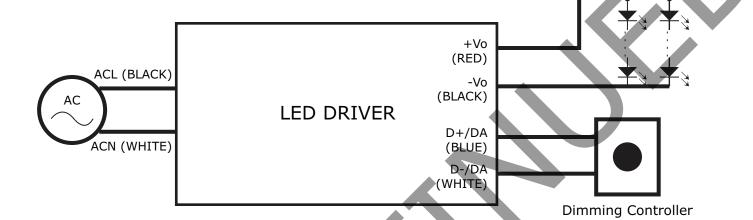


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APPLICATION NOTES

1. Dimming

Dimming should be controlled from the dimming controller with DALI, PWM, 1~10 Vdc, or resistive. Set the DALI controller to "broadcast mode" when connecting to the LED driver, since it will not be addressed in production.



1~10 Vdc Dimming

Voltage	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V (Open)
Output Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

Potentiometer Dimming

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Potentiometer	1K	2К	ЗК	4K	5K	6K	7K	8K	9К	10K (Open)
Output Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

PWM Dimming (@ 1kHz, 10V)

D	Outy Cycle	10%	20%	30%	40%	50%	60%	70%	80%	90%	100% (Open)
C	Output Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

REVISION HISTORY

rev.	description	date	
1.0	initial release	09/23/2014	
1.01	updated datasheet	03/13/2015	

The revision history provided is for informational purposes only and is believed to be accurate



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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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