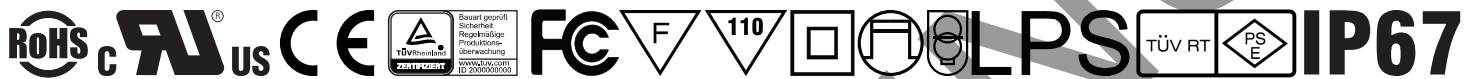
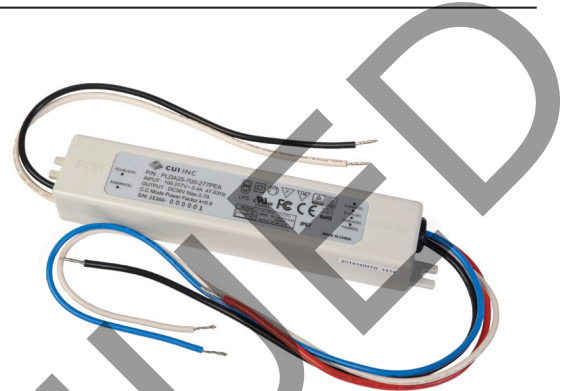


SERIES: PLDA25 | DESCRIPTION: LED DRIVER
FEATURES

- up to 25 W continuous power
- universal input range (90~305 Vac)
- single output
- dimming options: PWM, 1~10 Vdc
- power factor correction ≥ 0.9
- constant current
- low profile for easy installation
- IP67 rated
- over voltage, and continuous short circuit 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



MODEL	output voltage range ¹		output current	output power max	ripple and noise ²	efficiency
	min (Vdc)	max (Vdc)	(mA)	(W)	max (mVp-p)	typ (%)
PLDA25-530-277	9	48	530	25.44	480	86
PLDA25-700-277	9	36	700	25.2	360	84
PLDA25-1100-277	9	24	1100	26.4	240	86

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

PLDA25 - XXXX - 277XXX

Base Number

Output Current

Input Voltage
277 = (90~305 Vac)

Dimming
PE = PWM, 1~10 Vdc
"blank" = no dimming

IP Rating
"blank" = IP64
A = IP67

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		305	Vac
		127		420	Vdc
frequency		47		63	Hz
current	at 115 Vac, full load		0.3		A
	at 230 Vac, full load		0.14		A
inrush current	at 240 Vac, cold start, 25°C, after 100 μs			5	A
leakage current	at 277 Vac			0.5	mA
power factor correction	at 115 Vac/230 Vac, 75~100% load	0.9			
	at 277 Vac, 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		%/°C

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	TVS clamp				
short circuit protection	hiccup mode, auto recovery				

SAFETY & COMPLIANCE

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				
EMI/EMC	FCC Part 15 Class B/EN55015, EN61547, EN61000-4-(2,3,4,5,6), EN61000-3-2 Harmonic Class C, EN61000-3-3				
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 humidity	non-condensing	20		95	%
operating altitude				3,000	m

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	5.511 x 1.181 x 0.787 (140 x 30 x 20 mm)				inches
weight			100		g

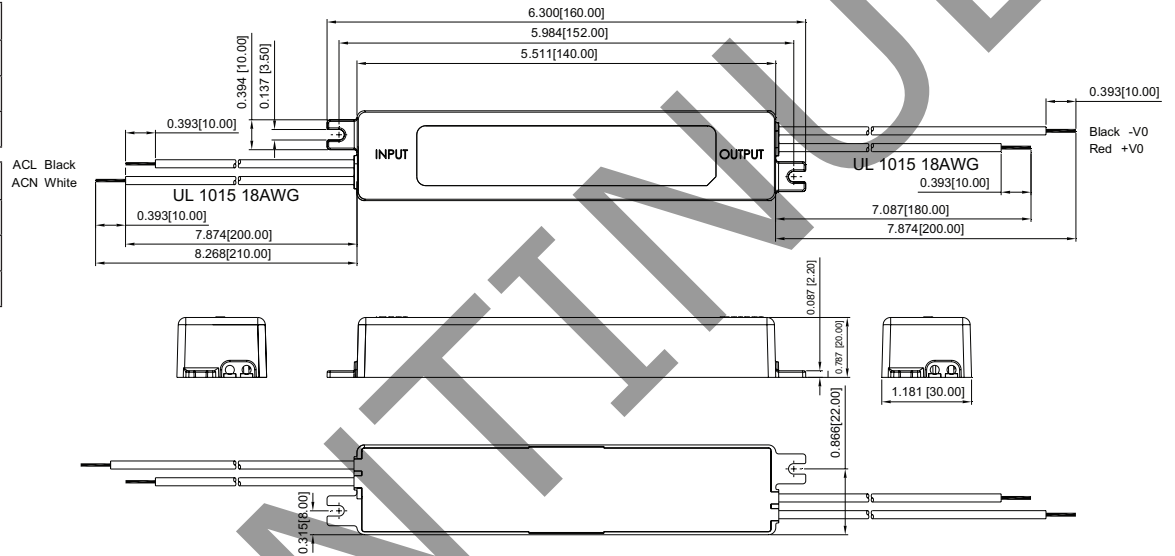
MECHANICAL DRAWING

MODELS WITHOUT DIMMING

units: inches[mm]
 tolerance: $\pm 0.02[\pm 0.5]$
 unless otherwise specified

INPUT WIRE CONNECTIONS	
Color	Function
Black	ACL
White	ACN

OUTPUT WIRE CONNECTIONS	
Color	Function
Red	+Vo
Black	-Vo

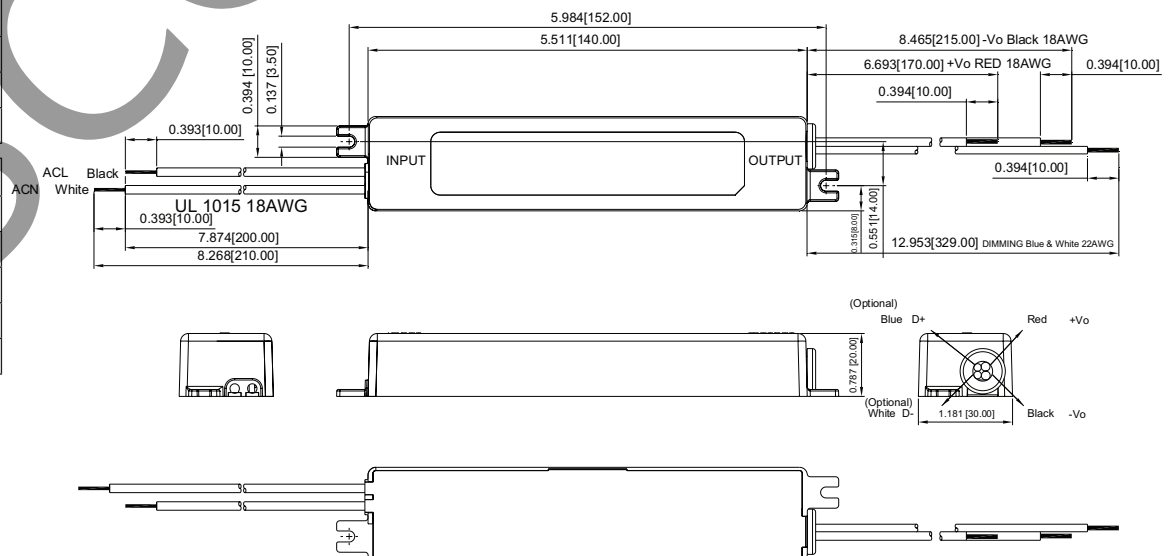


MODELS WITH DIMMING

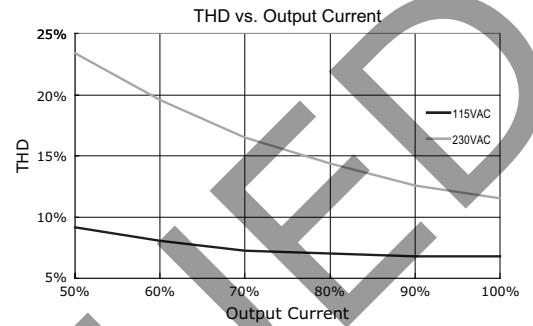
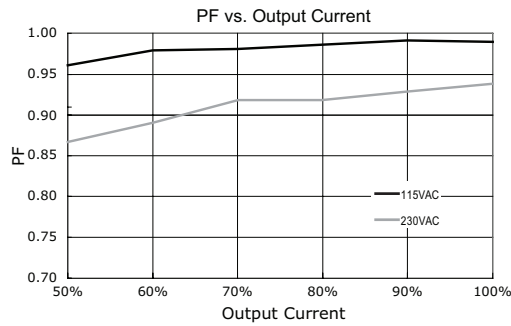
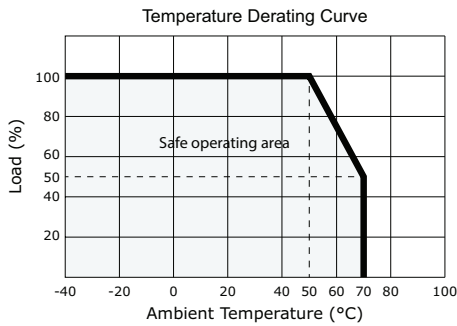
units: inches[mm]
 tolerance: $\pm 0.02[\pm 0.5]$
 unless otherwise specified

INPUT WIRE CONNECTIONS	
Color	Function
Black	ACL
White	ACN

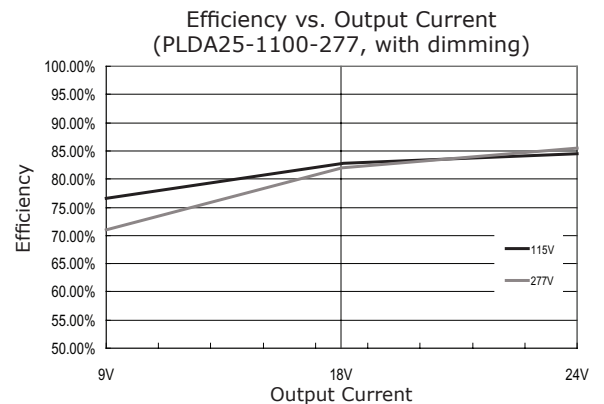
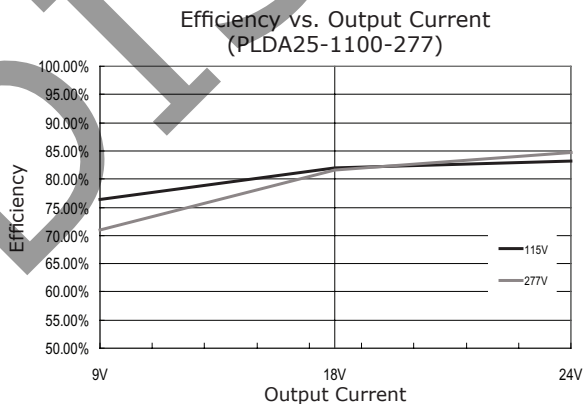
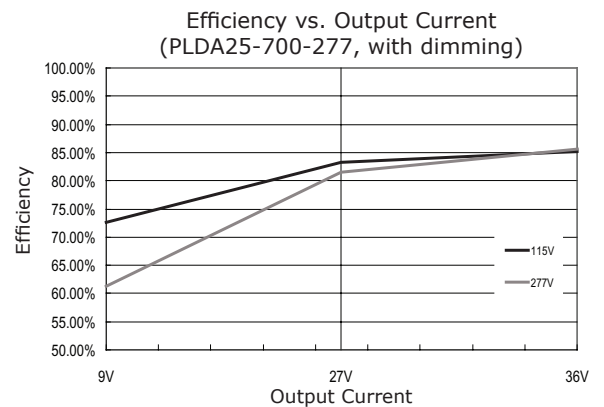
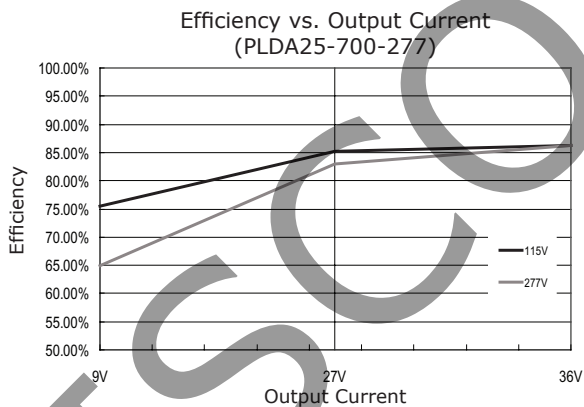
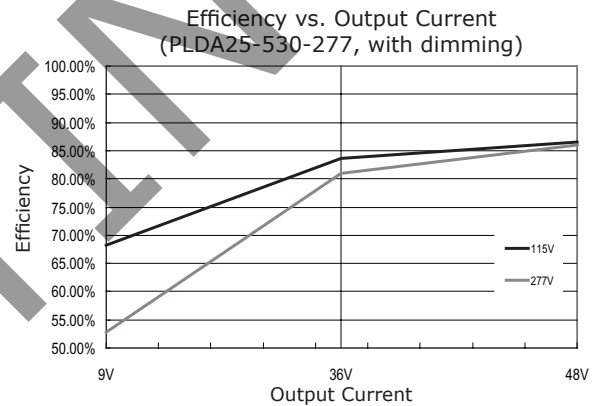
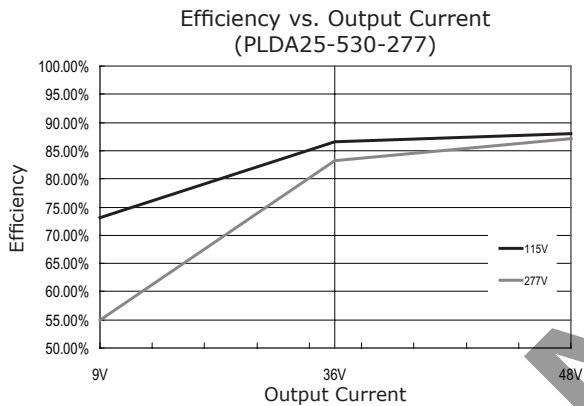
OUTPUT WIRE CONNECTIONS	
Color	Function
Red	+Vo
Black	-Vo
Blue	D+
White	D-



DERATING CURVES



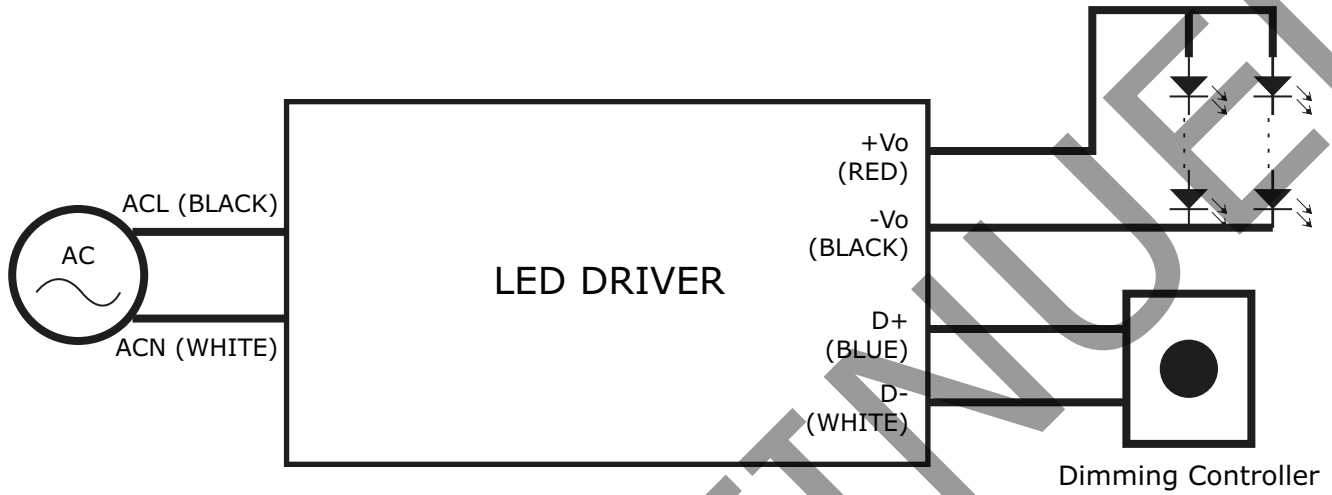
EFFICIENCY CURVES



APPLICATION NOTES

1. Dimming

Dimming should be controlled from the dimming controller with PWM or 1~10 Vdc.



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%

PWM Dimming (@ 1kHz, 10V)

Duty Cycle	10%	20%	30%	40%	50%	60%	70%	80%	90%	100% (open)
Output Current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

Note: 1. All specifications are measured at Ta=25°C, 115/230 Vac input voltage, and full load unless otherwise specified.

REVISION HISTORY

rev.	description	date
1.0	initial release	09/22/2014

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



Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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

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