ERA POLLUTION PREVENTER ELECTRICAL SPECIFICATIONS: ELECTRICAL SPECIFICATIONS: ELECTRICAL SPECIFICATIONS:							Constant Current LED Driver Model Number AC30CD700AP0Q Input Voltage: I20-277V Input Frequency: 50/60Hz Side Mount/Leads Options Dims to 0%-I00% By NFC Settings					
Output Power	Input Power	Input Current	Min PF (full Ioad)	Max THD (full load)	Output Voltage	Output Current	T case Max	Min Starting Temp <sup>**</sup>	IP Rating	Efficiency Up To	Dimming Protocol	Dimming Range
30W	35W	0.3@I20V 0.I3@277V	>0.90	<20	14-42V	125mA- 700mA ±15%	90°C	0°C	64	85	0 to 10V	0 to 100%
ondition.	INPU <sup>-</sup>	LED DRIVER	ker may		TPUT M-) DIM+) D+)		UOND-R - Ingut com - Ungut co	ACGO ACCOMPANY ACCOM	O 10V Dimming Omming Omming Omming Open/Short Circuit Protect Dim-to-Off/@Max Curre Min, Scart Temppo C Olass P Listed Como Use Wire Rated for at I		h Heigh	Hot Spot
<u>ote: Gra</u> y <u>e 2020 N</u>	<u>r (-) dimr</u> IEC secti	<u>ion 410.69</u> a	s been ch nd NEMA		ink per_				gths ' Blue	ref Value (* 58.2 5.9" 5.9"	·	
		OVERVC	OLTAGE		•	rent deca			vers aut	omaticall	у	

OVER VOLTAGE	Output Current decade mode, recovers automatically after fault condition is removed					
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed					
OVER TEMP. Shut down o/p voltage, re-power on to recover						
Operation TEM	IP. 0°C~50	٥°C				
WORKING HU	JMIDITY	10%~90%				
STORAGE TEMP.,	, HUMIDITY	-40'C~80'C				
Maximum T-Ca	ase TEMP.	90°C				
EMI/EMS	FCC Part 15	class A, UL8750, CSA C22.2 No. 250.13-14				
	SHORT CIRCUIT OVER TEMP. Operation TEM WORKING HI STORAGE TEMP. Maximum T-Ca	OVER VOLTAGE after fault of after fault of after fault of after fault of the fau				

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## **SAFETY:**

- Class P
- Class 2
- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- LED driver has a life expectancy of 50,000 hours at Tcase of  $\leq$ 75°C
- LED driver has a life expectancy of 100,000 hours at Tcase of

## **INSTALLATION:**

- Max Remote installation distance is 18 ft
- LED driver cases should be grounded
- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned stranded copper lead-wires are required for installation

\*AC Electronics/AC LED Power Designs warrants to the purchaser that each LED Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to 75°C; 3 years from date of manufacture when operated at a max case temp of up to 90°C when properly installed and under normal conditions of use. See <u>aceleds.com</u> for complete warranty policy.

#### ≤65°C

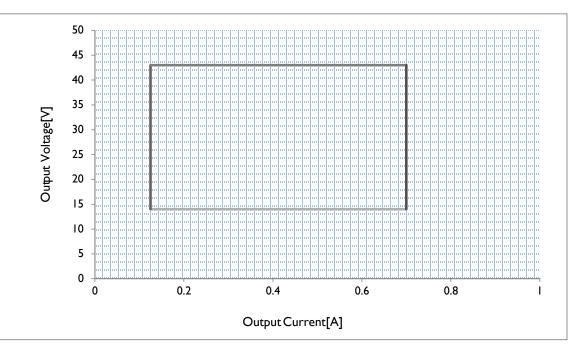
- Warranty: 5 yrs based on max case temp of 75°C; 3 yrs based on max case temp of 90°C\*
- Input/Output Isolation
- FCC Title 47 CFR Part 15
- Surge Protection (I KV)
- Gray (-) dimming wire has been changed to pink per the 2020 NEC section 410.69 and NEMA.

# GENERAL INFORMATION

WARRANTY	5 Years TC≤75°C, 3 Years 75°C≤TC≤90°C				
Inrush Current	35A				
MTBF	10,000 Hrs Type				
Protection	Overload/Over temperature/Short circuit protection				

#### APPROVALS

UL Class2, FCC Class A, RoHs, Type HL



## CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM http://www.aceleds.com/products-programmable.php

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Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

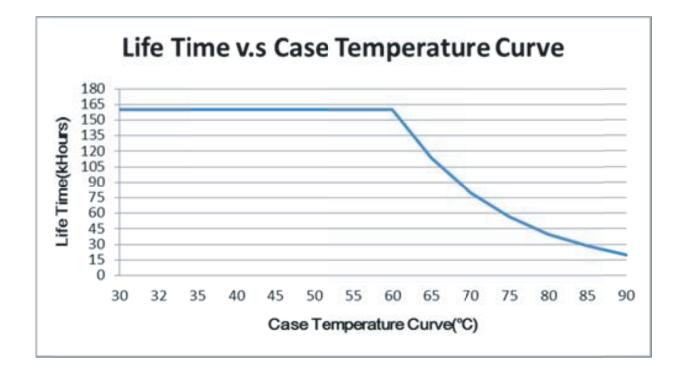
# **IOUT/VOUT CURVE**

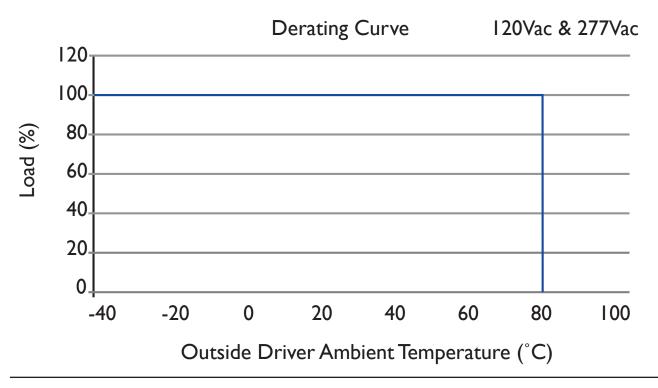




**P1** 

Performance Characteristics



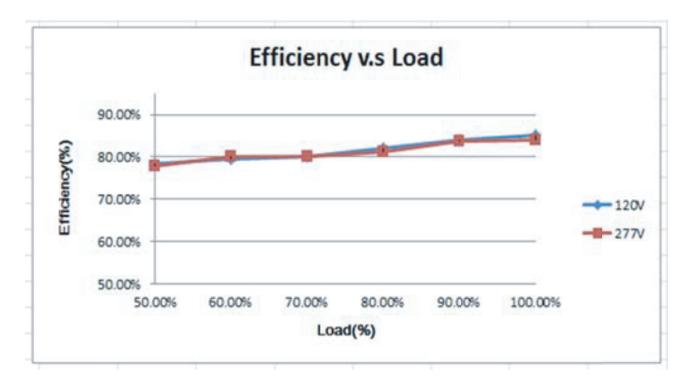


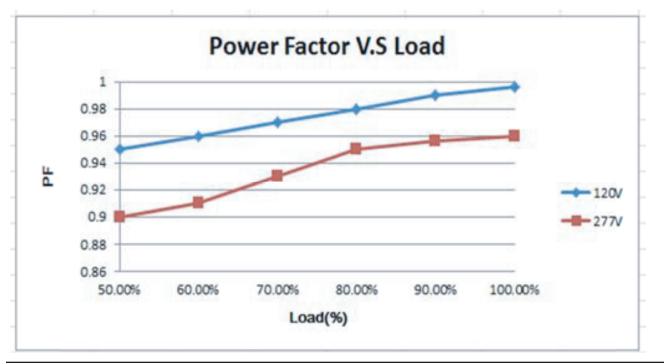
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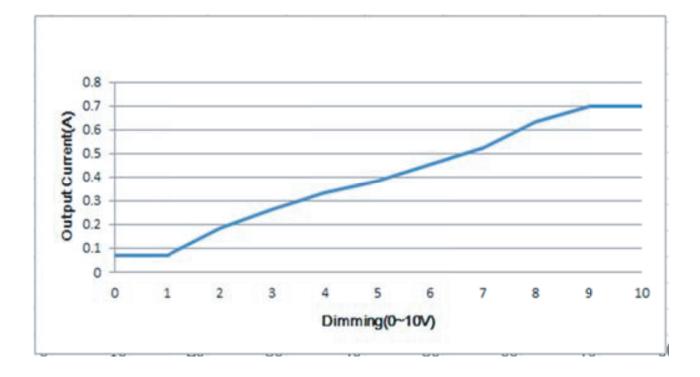


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Put the programmable wand above the NFC mark of the driver to start programming

CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM http://www.aceleds.com/programmable.php



Programmable Driver Options (App Note)

All programmable drivers accept a 16-bit hexadecimal code to program the output current (Iout) of the driver. The Iout programming codes are documented in the computer based-programming software (ST-TOOLS.exe) or from the driver's IOUTCODE.pdf file. The Locations below 0, 1, 2, 3 contain the basic code for a specific output current value (example 84 03 00 01 = 1050 mA for AC-50CD1.4APNZ).

Location | 0 | 1 | 2 | 3 |

Value | 00 | 00 | 00 | 00 |

For drivers containing Revision C of their firmware (contact factory for date code of implementation), it is also possible to adjust the minimum dimming level and the dimming speed. This adjustment is made by modifying location 2 of the programming code while keeping the other locations set for the desired output current. Specifically, the location 3 values are defined as:

- 00 => Dim to 1%, Speed  $\le 1.0 sec$
- $01 \Rightarrow$  Dim-To-OFF, Speed  $\leq 1.0 \text{ sec}$
- 02 => Dim to 10%, Speed  $\le 1.0 sec$
- 03 => Dim to 1%, Speed  $\ge 2.5 sec$
- $04 \Rightarrow$  Dim-To-Off, Speed  $\ge 2.5$  sec
- 05 => Dim to 10%, Speed  $\ge 2.5 sec$

As an example, if the programming code value of 84 03 00 01 is programmed, the output current will be 1050 mA, and the driver will dim to 1% and the dimming speed will be  $\leq$  1.0 sec. If the programming code of 84 03 04 01 is programmed, the output current will be 1050 mA, and the driver will dim to off and the dimming speed will be  $\geq$  2.5 sec.

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