

AC30CD700AP0QD Constant Current LED Driver

Programmable | Digital
Wide-Range Adjustable Current & Dimming

Input Voltage: 120-277V
Input Frequency: 50/60Hz
Side Leads
< 1 Sec. Start time

Decade™

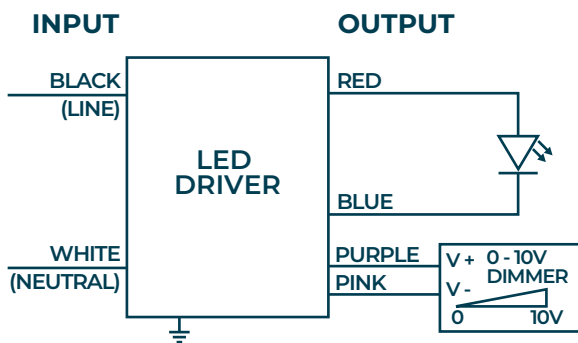
LED Driver with 10-Year USA-Backed Warranty

ELECTRICAL SPECIFICATIONS:

Output Power Max	Input Power	Input Current	Min PF (full load)	Max THD (full load)	Output Voltage	Output Current	T case Max	Min. Starting Temp**	Efficiency Up To	KV Rating	IP Rating	Dimming Protocol	Dimming Range
30W	35W	300mA @ 120V 130mA @ 277V	0.9	20%	14 -42V	125 - 700mA	90°C	0°C	85%	2KV	64	1 to 10V	100% to 1% to OFF

** This driver can operate down to -40°C in a non-dimming condition. Below 0°C some flicker may be observed.

WIRING:

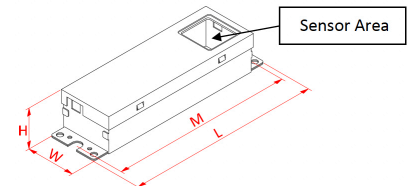
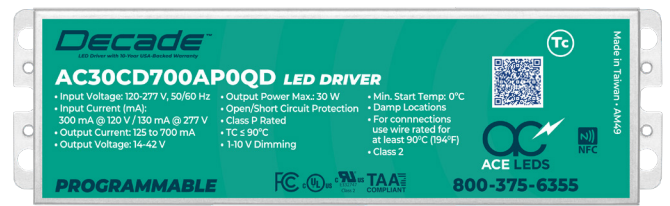


Lead Lengths

Black	6"	Blue	6"	Purple	7.1"
White	6"	Red	6"	Pink	7.1"

Note: Gray (-) dimming wire has been changed to pink per the 2020 NEC section 410.69 and NEMA.

PHYSICAL:



Dimensions	Length	Width	Height	Mounting
AC30CD700AP0QD	6.22"	1.73"	1.22"	5.86"

SAFETY:

- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- Input/Output Isolation
- Class 2
- *Warranty: 10 yrs based on max case temp of ≤75°C, 5 yrs based on max case temp of ≤90°C
- FCC Title 47 CFR Part 15
- Surge Protection (2 KV)

INSTALLATION:

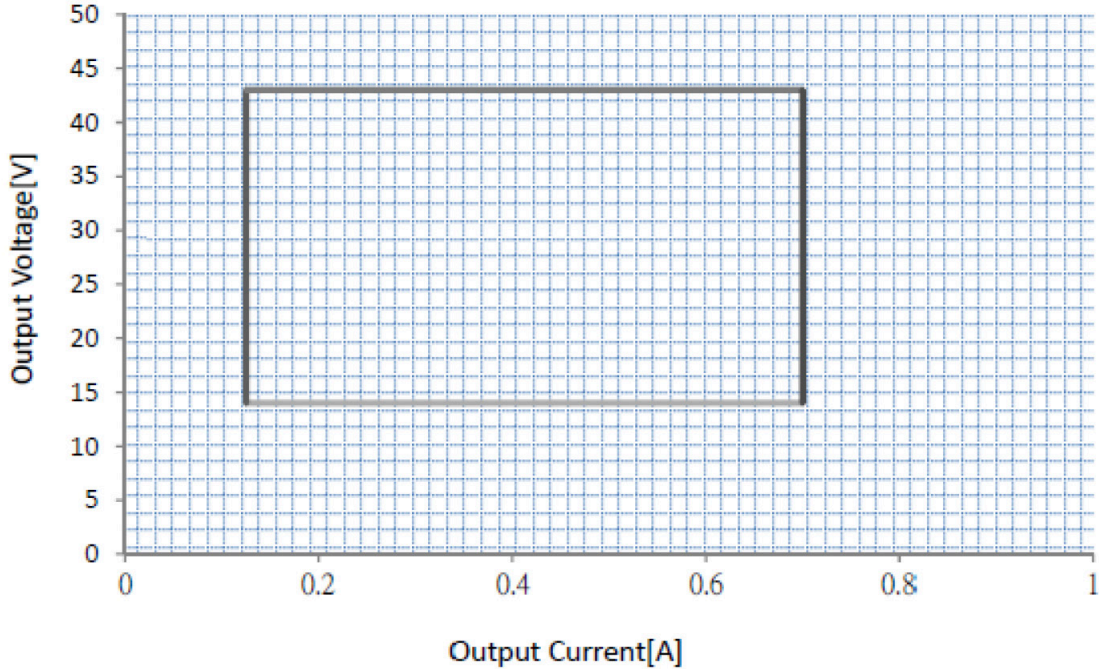
- Max Remote installation distance is 18 ft
- LED driver cases should be grounded
- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned stranded copper lead-wires are required for installation



*AC Electronics/ACE LEDS warrants to the purchaser that each LED Driver will be free from defects in material or workmanship for a period of 10 years when operated at max case temp of up to ≤75°C; 5 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 aceleds.com for complete warranty policy.

For questions or to place an order contact us at oemsales@aceleds.com or 800-375-6355 or your local WPG American Sales representative at inquiry@wpgamericas.com or 888-WPG8881

IOUT/VOUT CURVE



OUTPUT CURRENT CODE LIST

Current Value (mA)	Correspond Iout Code				Current Value (mA)	Correspond Iout Code			
	Location					Location			
	0	1	2	3		0	1	2	3
125	00	7D	00	04	450	01	C2	00	04
150	00	96	00	04	500	01	F4	00	04
200	00	C8	00	04	550	02	26	00	04
250	00	FA	00	04	600	02	58	00	04
300	01	2C	00	04	650	02	8A	00	04
350	01	5E	00	04	700	02	BC	00	04
400	01	90	00	04					

Note: 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 by programming the location 2.

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PROGRAMMABLE DRIVER OPTIONS (APP NOTE)



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>

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 02 26 00 04 = 550 mA for AC30CD700AP0QD).

Location | 0 | 1 | 2 | 3 |

Value | 00 | 00 | 00 | 00 |

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 2 values are defined as:

Linear Dimming:

- 00 => Dim to 1%, Speed \leq 1.0 sec
- 01 => Dim-To-OFF, Speed \leq 1.0 sec
- 02 => Dim to 10%, Speed \leq 1.0 sec

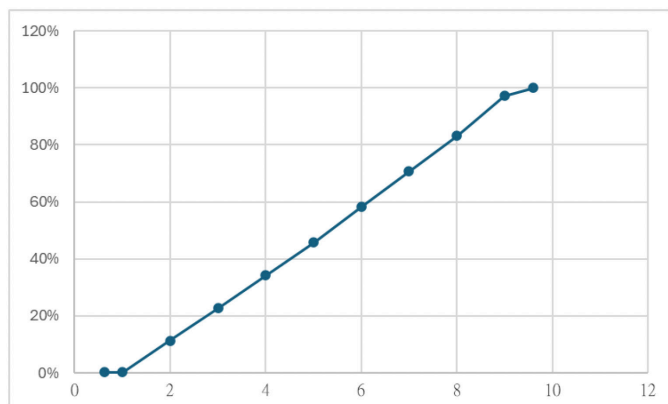
Logarithmic Dimming:

- 10 => Dim to 1%, Speed \leq 1.0 sec
- 11 => Dim-To-OFF, Speed \leq 1.0 sec
- 12 => Dim to 10%, Speed \leq 1.0 sec

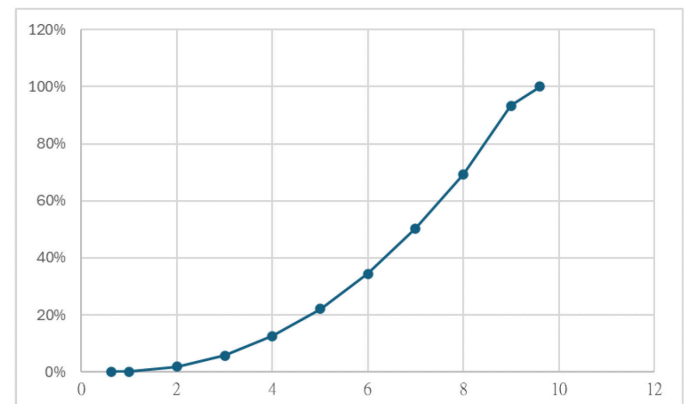
As an example, if the programming code value of 02 26 00 04 is programmed, the output current will be 550 mA, and the driver will dim to 1% and the dimming speed will be \leq 1.0 sec. If the programming code of 02 26 00 04 is programmed, the output current will be 550 mA, and the driver will dim to off and the dimming speed will be \leq 1.0 sec.

DIMMING CURVE

LINEAR DIMMING



LOGARITHMIC DIMMING



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