ACE LEDS

AC98CD2.1AP0VD
Constant Current LED Driver

Programmable | Digital
Wide-Range Adjustable Current & Dimming

Decade™
LED Driver with 10-Year USA-Backed Warranty

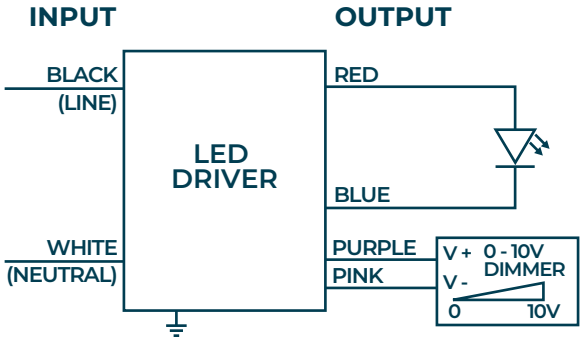
Input Voltage: 120-277V
Input Frequency: 50/60Hz
Side Leads
< 1 Sec. Start time

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
98W	113W	940mA @ 120V 410mA @ 277V	0.9	20%	27 -47V	700 - 2100mA	90°C	10°C	86%	2KV	64	1 to 10V	100% to 1% to OFF

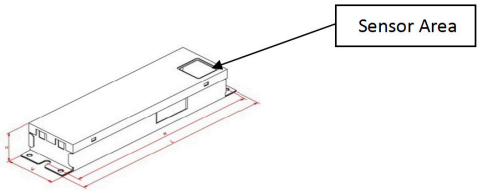
** This driver can operate down to -40˚C in a non-dimming condition. Below 0˚C some flicker may be observed.

WIRING:



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

PHYSICAL:



Dimensions	Length	Width	Height	Mounting
AC98CD2.1AP0VD	9.5"	2.4"	1.46"	8.9"

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

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*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**

Data is based upon tests performed by ACE LEDS 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.

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OUTPUT CURRENT CODE LIST

Current Value (mA)	Correspond Iout Code Location				Current Value (mA)	Correspond Iout Code Location			
	0	1	2	3		0	1	2	3
700	02	BC	00	0C	1425	05	91	00	0C
725	02	D5	00	0C	1450	05	AA	00	0C
750	02	EE	00	0C	1475	05	C3	00	0C
775	03	07	00	0C	1500	05	DC	00	0C
800	03	20	00	0C	1525	05	F5	00	0C
825	03	39	00	0C	1550	06	0E	00	0C
850	03	52	00	0C	1575	06	27	00	0C
875	03	6B	00	0C	1600	06	40	00	0C
900	03	84	00	0C	1625	06	59	00	0C
925	03	9D	00	0C	1650	06	72	00	0C
950	03	B6	00	0C	1675	06	8B	00	0C
975	03	CF	00	0C	1700	06	A4	00	0C
1000	03	E8	00	0C	1725	06	BD	00	0C
1025	04	01	00	0C	1750	06	D6	00	0C
1050	04	1A	00	0C	1775	06	FF	00	0C
1075	04	33	00	0C	1800	07	08	00	0C
1100	04	4C	00	0C	1825	07	21	00	0C
1125	04	65	00	0C	1850	07	3A	00	0C
1150	04	7E	00	0C	1875	07	53	00	0C
1175	04	97	00	0C	1900	07	6C	00	0C
1200	04	B0	00	0C	1925	07	85	00	0C
1225	04	C9	00	0C	1950	07	9E	00	0C
1250	04	E2	00	0C	1975	07	B7	00	0C
1275	04	FB	00	0C	2000	07	D0	00	0C
1300	05	14	00	0C	2025	07	E9	00	0C
1325	05	2D	00	0C	2050	08	02	00	0C
1350	05	46	00	0C	2075	08	1B	00	0C
1375	05	5F	00	0C	2100	08	34	00	0C
1400	05	78	00	0C	2100 OFF	08	34	01	0C

Note: Factory default current is set to the maximum current unless otherwise specified.
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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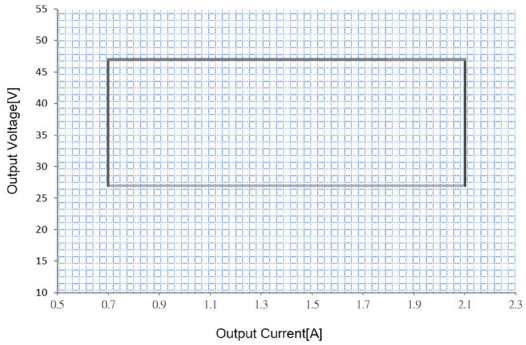
IOUT/VOUT CURVE



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 06 A4 01 0C = 1700 mA for AC98CD2.1AP0VD).

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 ≤ 1.0 sec
- 01 => Dim-To-OFF, Speed ≤ 1.0 sec
- 02 => Dim to 10%, Speed ≤ 1.0 sec

Logarithmic Dimming:

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

As an example, if the programming code value of 06 A4 01 0C is programmed, the output current will be 1700 mA, and the driver will dim to 1% and the dimming speed will be ≤ 1.0 sec. If the programming code of 06 A4 01 0C is programmed, the output current will be 1700 mA, and the driver will dim to off and the dimming speed will be ≤ 1.0 sec.

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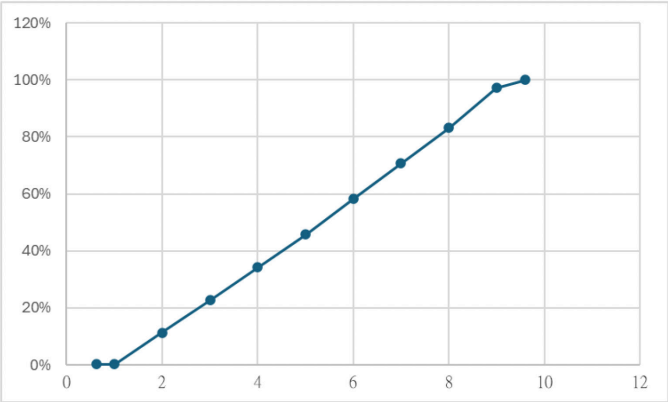
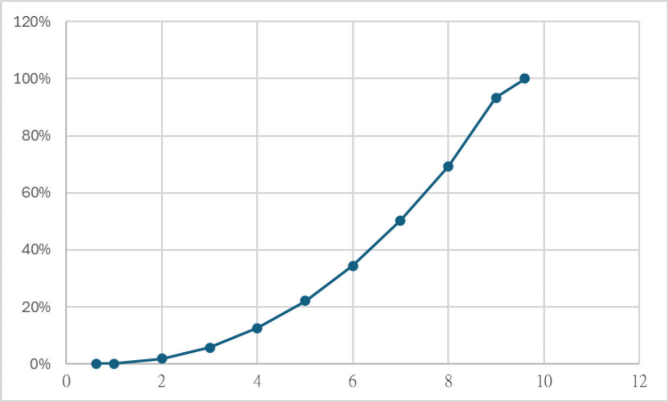
DIMMING CURVE

LINEAR DIMMING



LOGARITHMIC DIMMING



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