

**PROGRAMMABLE,
DIGITAL, WIDE-RANGE
AJUSTABLE CURRENT & DIMMING
CLASS P LISTED**



Constant Current LED Driver

Model Number AC-50CDI.4APPI

P1

Input Voltage: 120-277V

Input Frequency: 50/60Hz

Side Mount/Leads Options

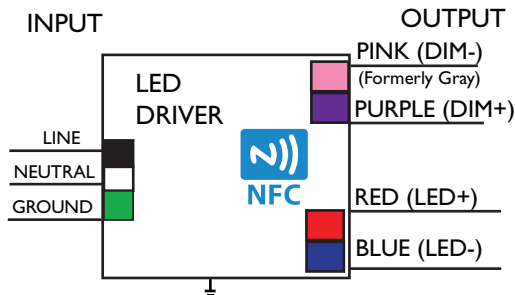
Dim-to-1% (Default)

ELECTRICAL SPECIFICATIONS:

Output Power	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	IP Rating	Dimming Protocol	Dimming Range
50W	60W	0.5A@120V 0.22A@277V	>0.90	<20	15-55V	400mA- 1400mA	90°C	0°C	85%	64	0 to 10V	1 to 100%

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

WIRING:



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

Lead Lengths

Black	5.9"	Blue	5.9"	Purple	7.1"	Green
White	5.9"	Red	5.9"	Pink	7.1"	5.9"

PHYSICAL:



Dimensions	Length	Width	Height	Mounting
AC-50CDI.4APPI	5.23"	2.48"	1.18"	4.84"

Tref Max Value (°C)	Tc/Tref Value (°C)	Ta/Value (°C)
90	61.7	40

SAFETY:

- Class P Listed
- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- LED driver has a life expectancy of 50,000 hours at Tcase of ≤75°C
- LED driver has a life expectancy of 100,000 hours at Tcase of ≤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 (3 KV)
- Type TL Rated
- Gray (-) dimming wire has been changed to pink per the 2020 NEC section 410.69 and NEMA.
- Dim-To-Off Programming Option
 - o Active: Code = 78 05 01 01
 - o Inactive: Code = 78 05 00 01

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



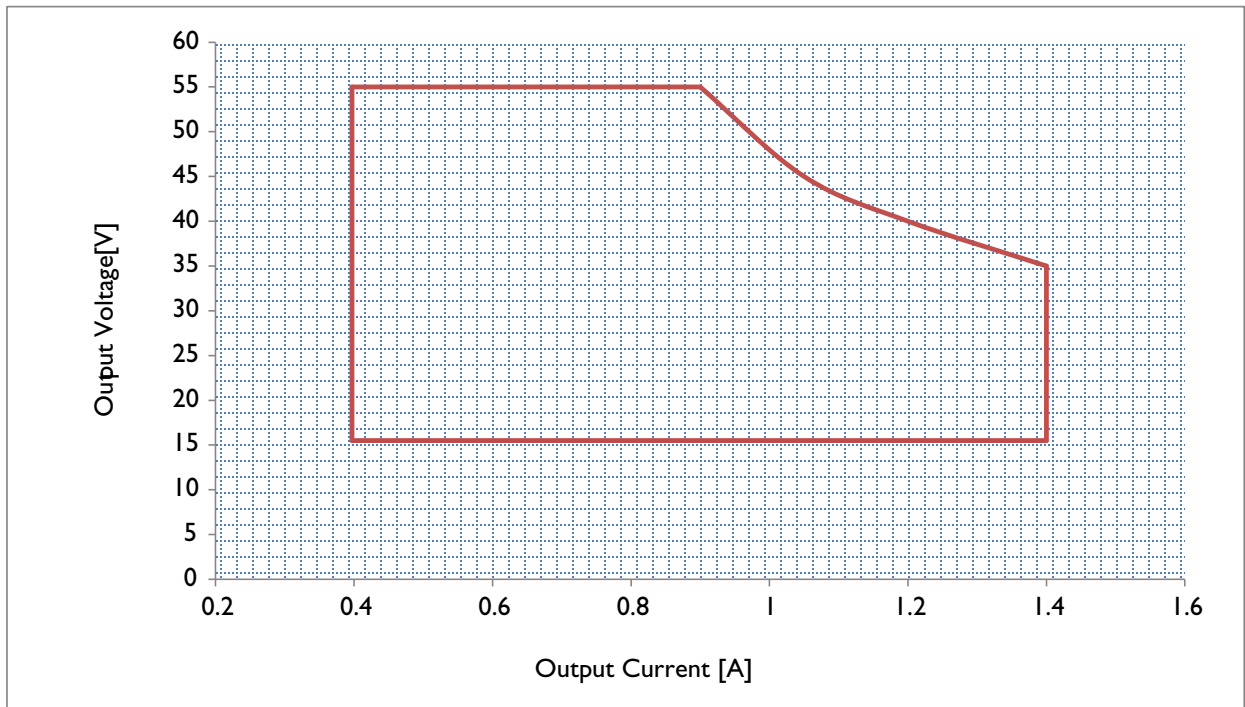
*AC Electronics/AC LED Power Designs warrants to the purchaser that each LED Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to <75°C; 3 years from date of manufacture when operated at a max case temp of up to 90°C when properly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

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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.



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PROGRAMMING WAND. DOWNLOAD
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