



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

Constant Current LED Driver

**Model Number
AC-50CDI.4APNZ**

Input Voltage: 120-277V

Input Frequency: 50/60Hz

Side and Bottom Mount/Leads Options

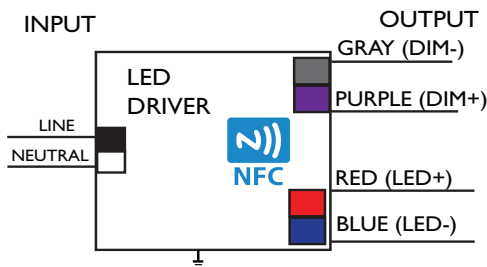
< 1 Sec. Start time/(Starting with batch code AKT.48)

Dim-to-Off @Max Current

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	Dimming Protocol	Dimming Range	IP Rating
50W	60W	0.5A@120V 0.22A@277V	>0.90	<20	15-55V	400mA- 1400mA	90°C	-40°C	85%	0 to 10V	1 to 100%	65

WIRING:

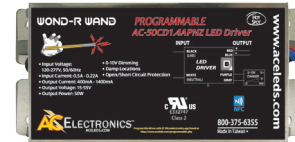


Lead Lengths			
Black	5.9"	Blue	5.9"
White	5.9"	Red	5.9"
Purple	5.9"	Gray	5.9"

PHYSICAL:



Bottom Mount
Model No:
AC-50CDI.4APBNZ



Dimensions	Length	Width	Height	Mounting
AC-50CDI.4APNZ	5.23"	2.48"	1.18"	4.84"
AC-50CDI.4APBNZ	4.56"	2.48"	1.18"	

Tref Max Value (°C)	Tc/Tref Value (°C)	Ta/Value (°C)
90	58.2	40

Driver Option:

- 12V Output Tap Wire (AC-50CDI.4APTNZ)

OR (AC50CDI.4APBTNZ)

- IP 67 Rating
- 10Kv Surge Protection

SAFETY:

- Class P
- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- LED driver has a life expectancy of

- 50,000 hours at Tcase of $\leq 75^{\circ}\text{C}$ of 90°C^*
- LED driver has a life expectancy of 100,000 hours at Tcase of $\leq 65^{\circ}\text{C}$
- Warranty: 5 yrs based on max case temp of $< 75^{\circ}\text{C}$; 3 yrs based on max case temp

- Input/Output Isolation
- FCC Title 47 CFR Part 15
- Surge Protection (3 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/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 $< 75^{\circ}\text{C}$; 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 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.





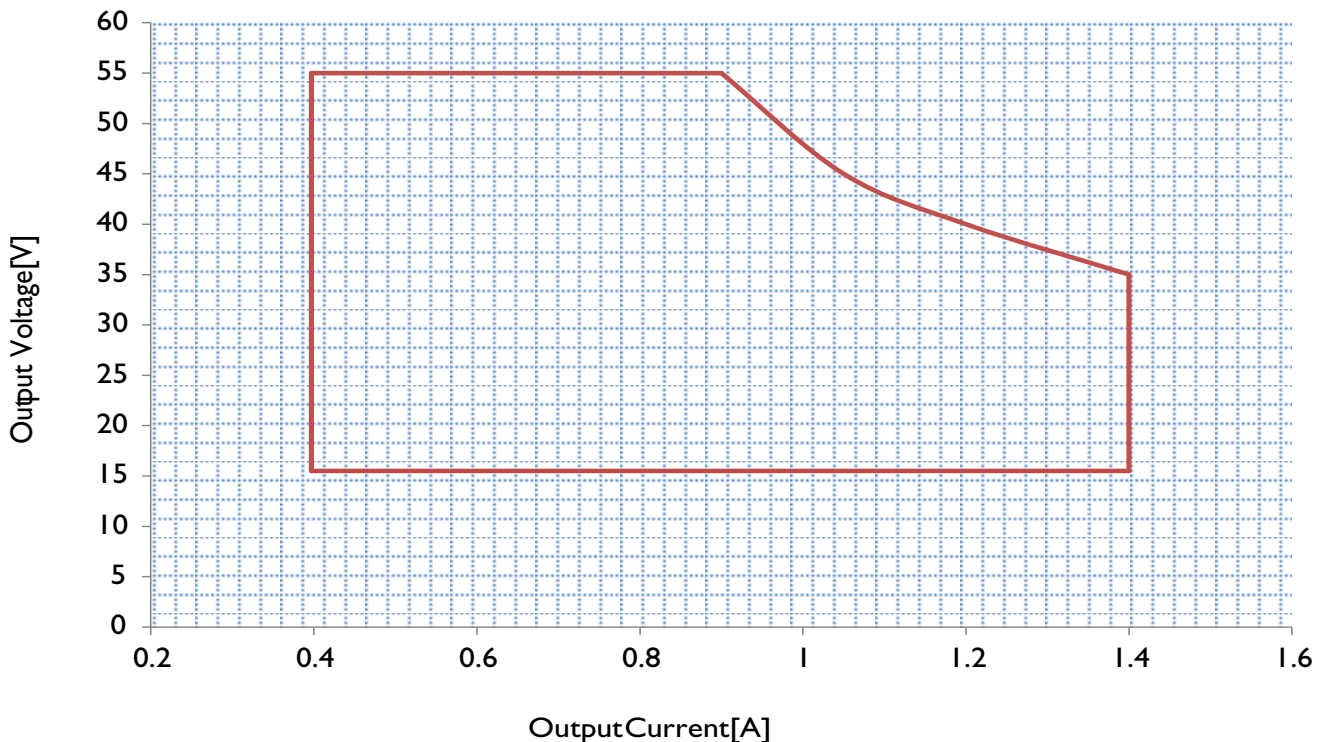
Phone Instructions

First you must have a Android device (phone/tablet) with NFC-V app downloaded.
 Open App; then place the device on top of the driver matching up sensors untile it syncs up
 Basic format
 Write
 Insert the appropriate code from chart above
 Write
 Successfully written will appear

To Check: Read
 Read
 Shows the Block - 00 00 00 00
 This is where the code you input appears

IOUT/VOUT CURVE

Use with NFC-V Reader App Available Free at Google App Store



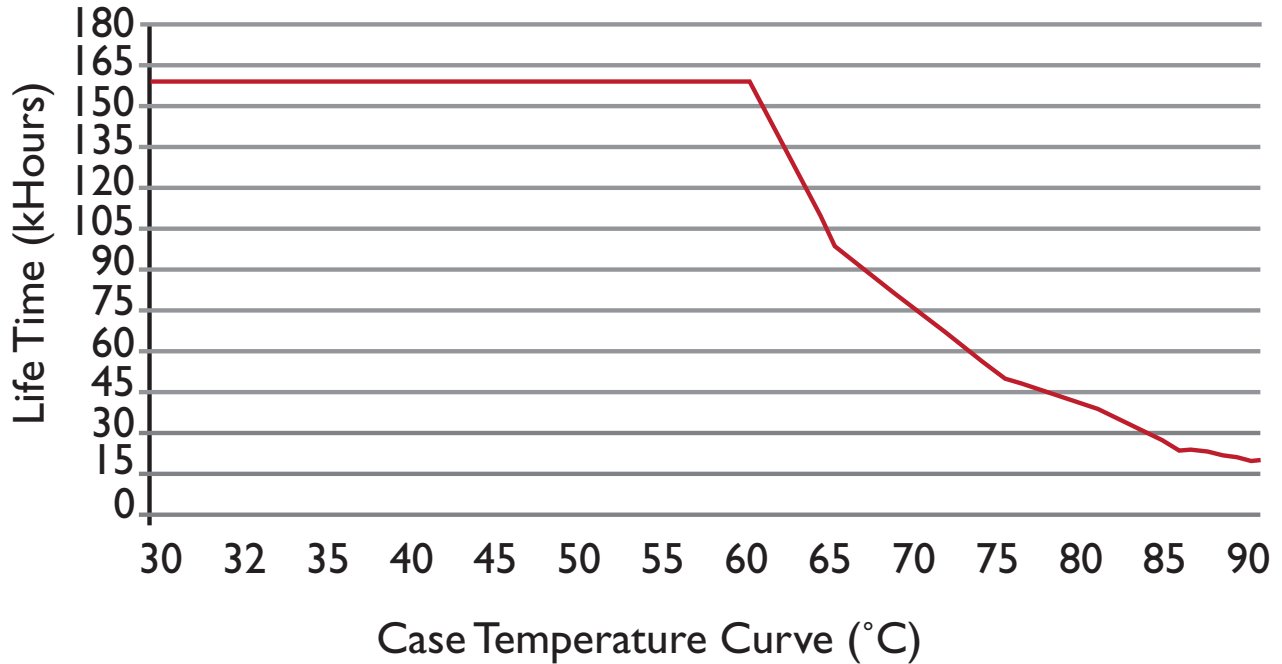
CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM <http://www.aceleds.com/products-programmable.php>

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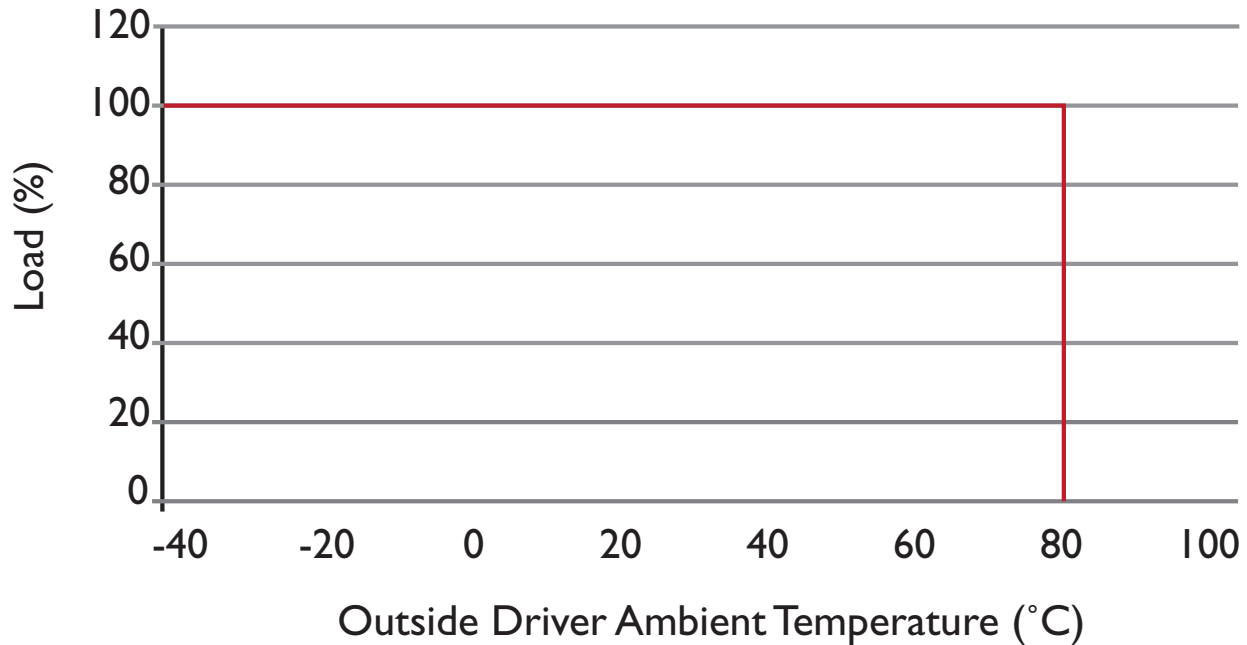
Performance Characteristics

Life Time v.s. Case Temperature Curve



Derating Curve

120Vac & 277Vac

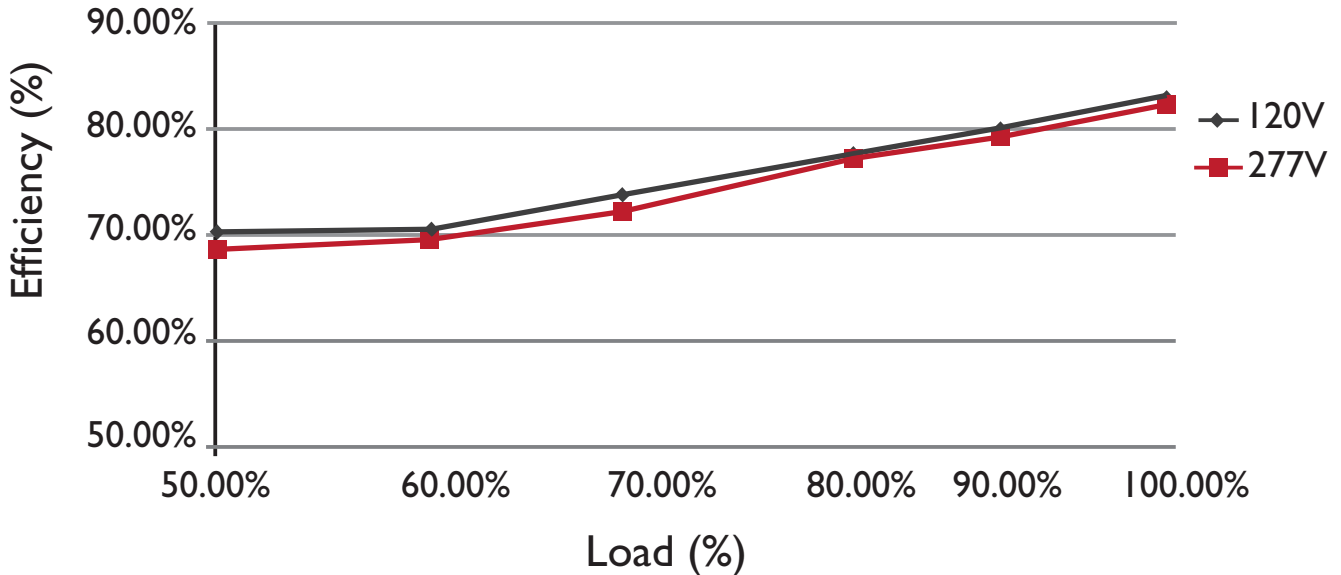


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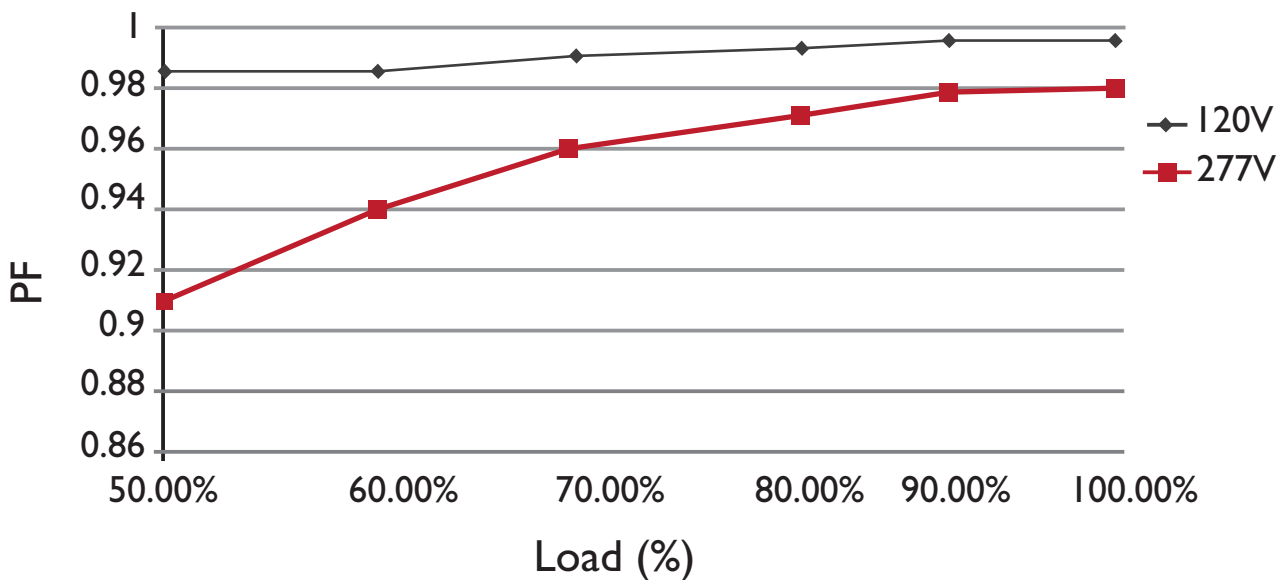
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Performance Characteristics

Efficiency v.s. Load



Power Factor v.s. Load

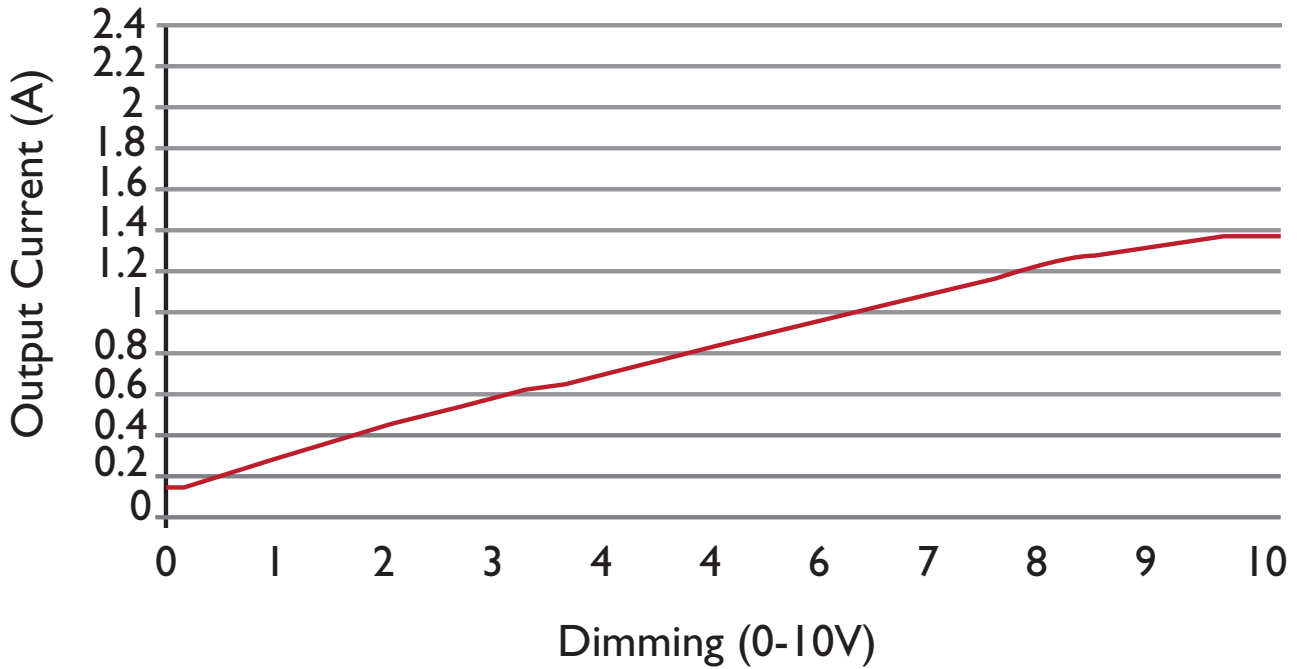


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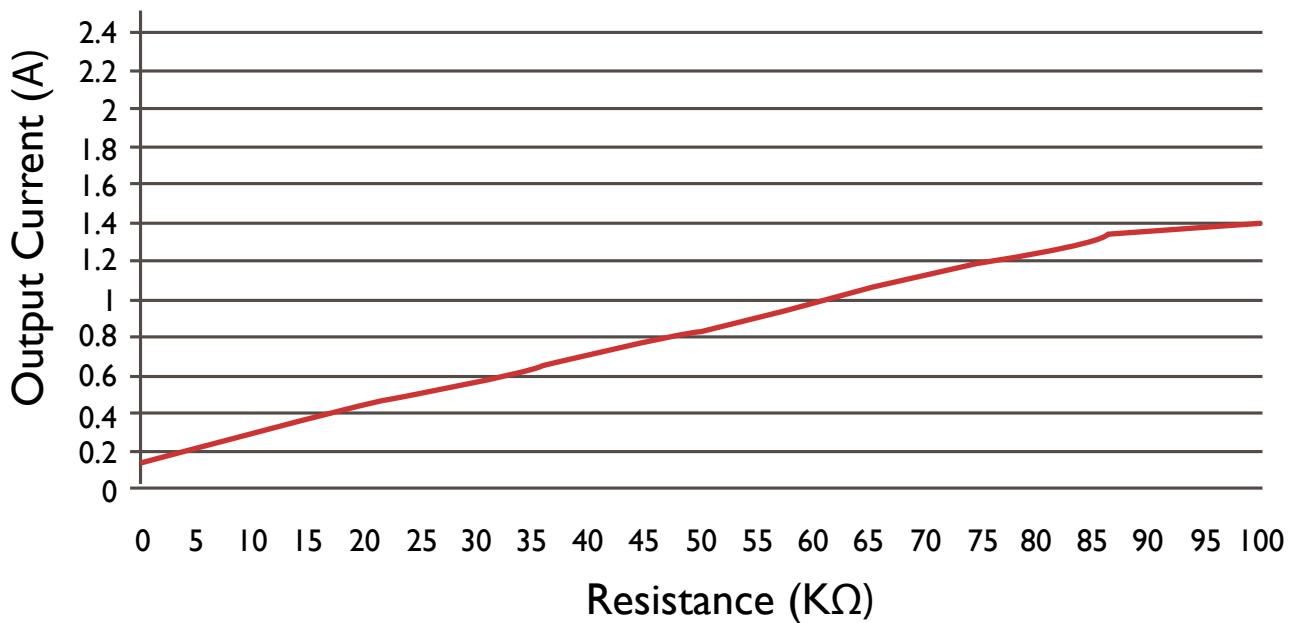
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Performance Characteristics

Output Current v.s. Dimming



Output Current v.s. Resistance



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