AC ELECTRONICS™
ACELEDS.COM

EPA POLLUTION PREVENTER

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

# Constant Current LED Driver

## Model Number AC-40CD1.4APKV

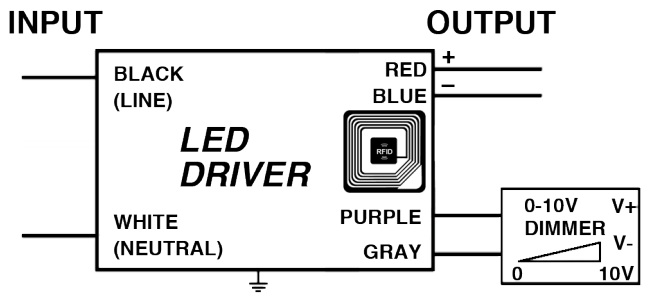
Input Voltage: 120-277V
Input Frequency: 50/60Hz
Side and Bottom Mount/Leads Options
< 1 Sec. Start time
Dim-to-1% (Default)

## 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 | Dimming Protocol | Dimming Range | IP Rating |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 to 40W | 47W | 0.4A @ 120V, 0.18A @ 277V | >0.90 | <20% | 15 to 55V | 400 to 1400mA | 90°C | -40°C | 85% | 0 to 10V | 1 to 100% | 64 |

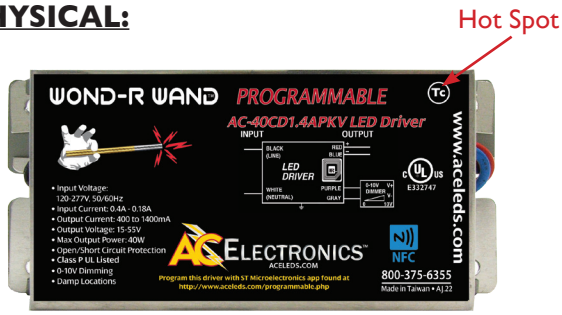
** This driver can operate down to -40°C in a non-dimming condition. Below 0°C some ficker may be observed.

## WIRING:




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

## PHYSICAL:




**More Driver options on the next page**

| Dimensions | Length | Width | Height | Mounting |
|---|---|---|---|---|
| AC-40CD1.4APKV | 5.23" | 2.48" | 1.18" | 4.84" |

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

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*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 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.**

RoHS COMPLIANT LEAD-FREE


Revised 02/23/2018

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# AC-40CD1.4APKV

**Driver Option:**

- **12V Output Tap Wire (AC-40CD1.4APTKV) (AC-40CD1.4APTMZ)**
- **10% dimming, Dim-To-Off and 1%**
- **10Kv Surge Protection**

**Consult Factory for model number and form factor**

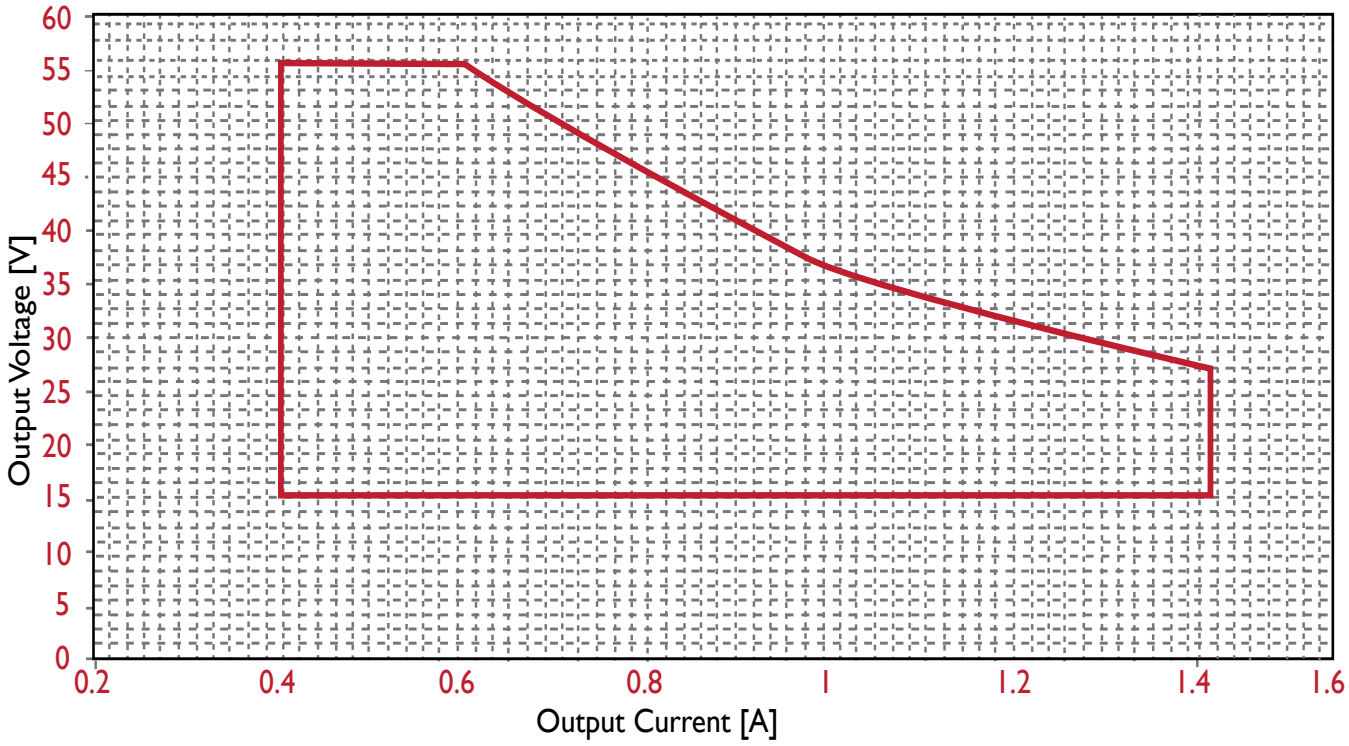

## Phone Instructions

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 you 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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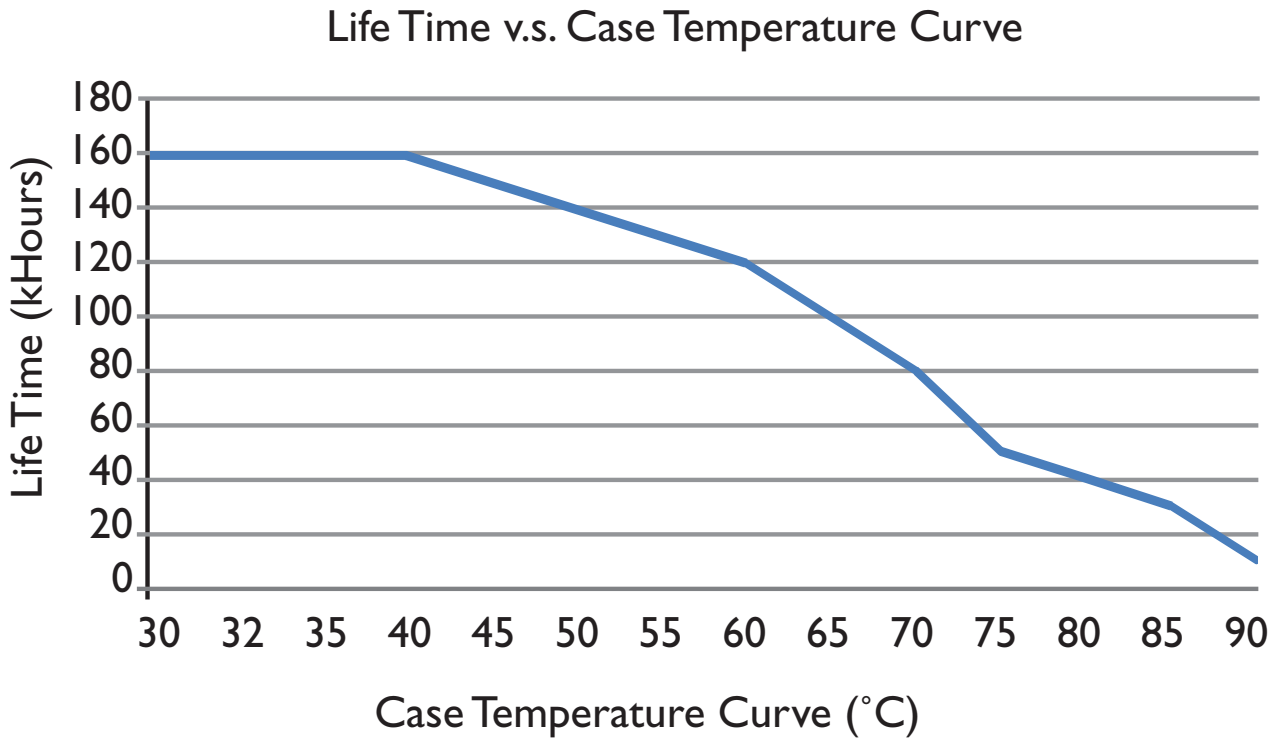
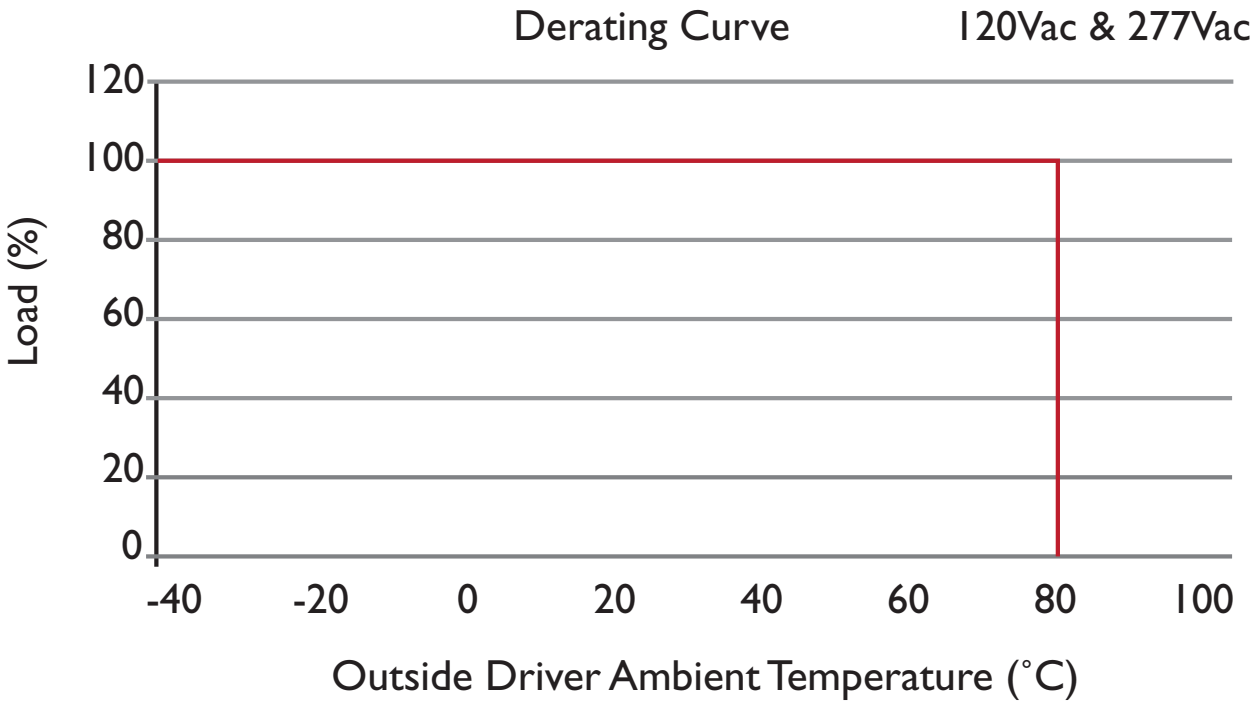
## Performance Characteristics



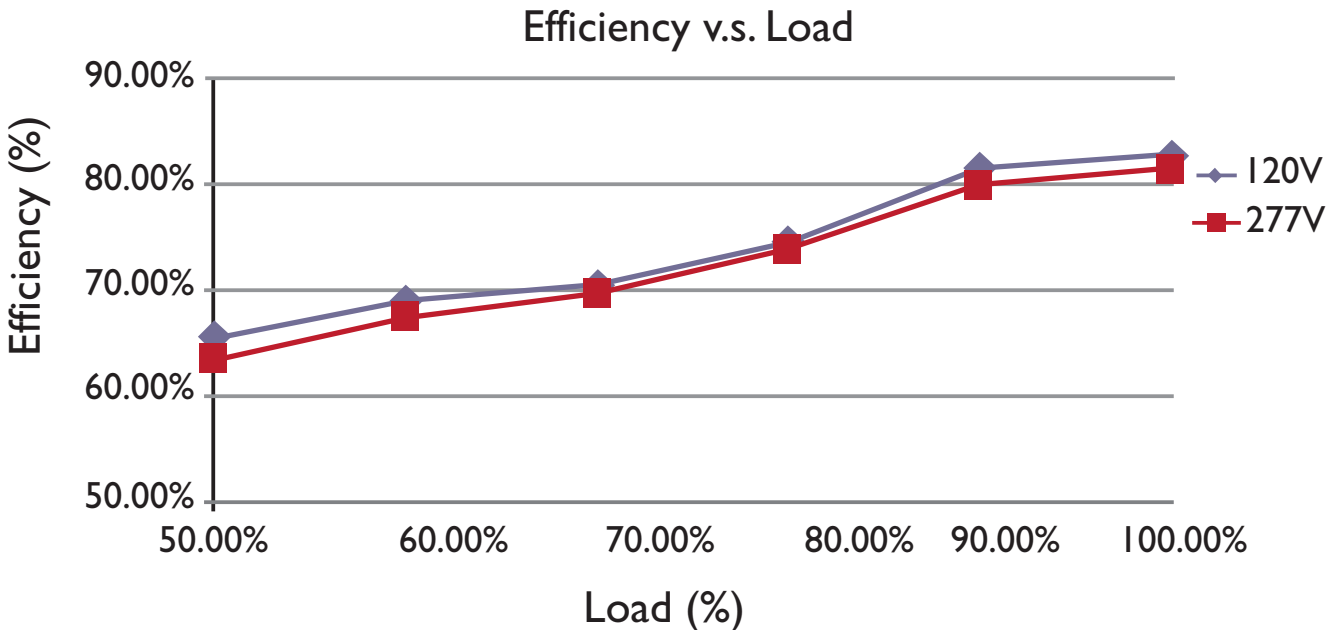



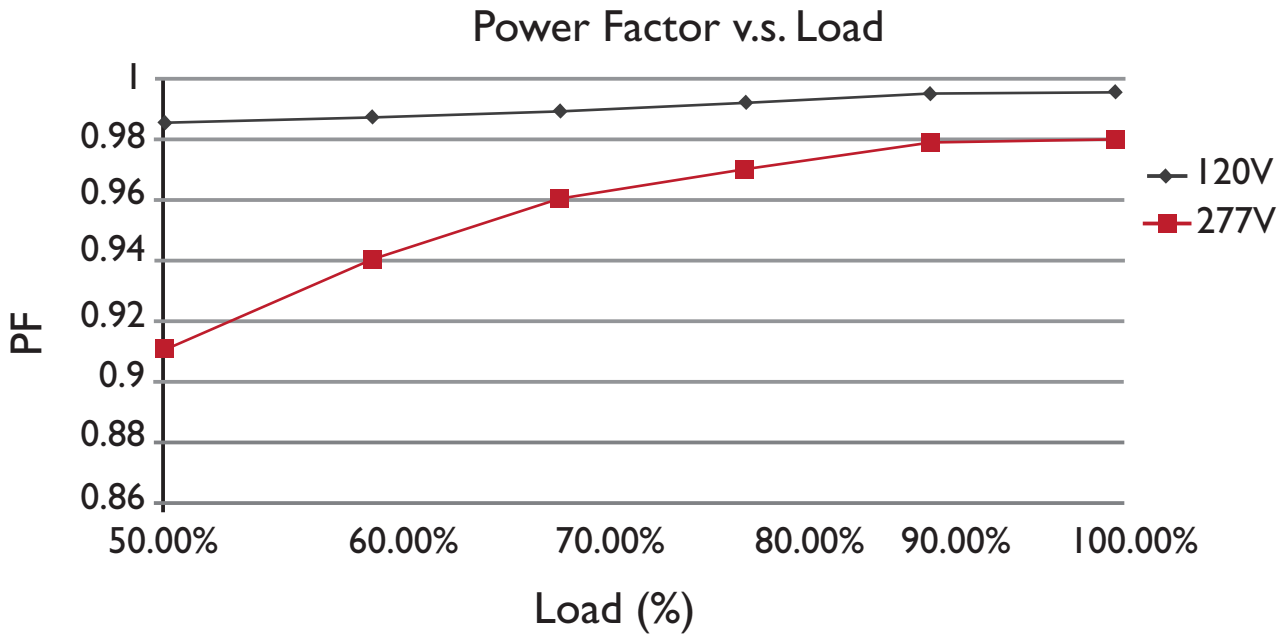




Revised 02/23/2018

## Performance Characteristics



## Performance Characteristics