



**PROGRAMMABLE,  
DIGITAL, WIDE-RANGE  
ADJUSTABLE CURRENT & DIMMING**

## Constant Current LED Driver

### Model Number AC-50CDI.4APTUQ

Input Voltage: 120-277V

Input Frequency: 50/60Hz

Side Mount/Leads Options

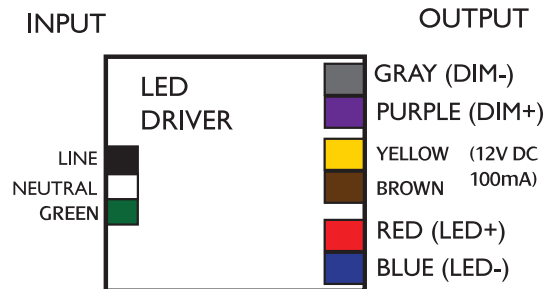
< 1 Sec. Start time

Dim-to-Off @Max Current

### 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	IP Rating	Dimming Protocol	Dimming Range
50W	60W	0.5A@120V 0.22A@277V	>90	<20	15-55V	400mA - 1400mA	194/90°	-40/-40	85%	64	0 to 10V	1 to 100%

### WIRING:



Both output positive and negative connectors are equivalent (same electrical point)

### PHYSICAL:



Model	Length	Width	Height	Mounting
AC-50CDI.4APTUQ	12.4"	1.3"	1.08"	11.8"

### SAFETY:

- UL and cUL Recognized
- UL Outdoor Type I
- Class 2
- 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)

### 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://aceleds.com) for complete warranty policy.

3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • [www.aceleds.com](http://www.aceleds.com)

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.



**Performance Characteristics**

**Phone Instructions**

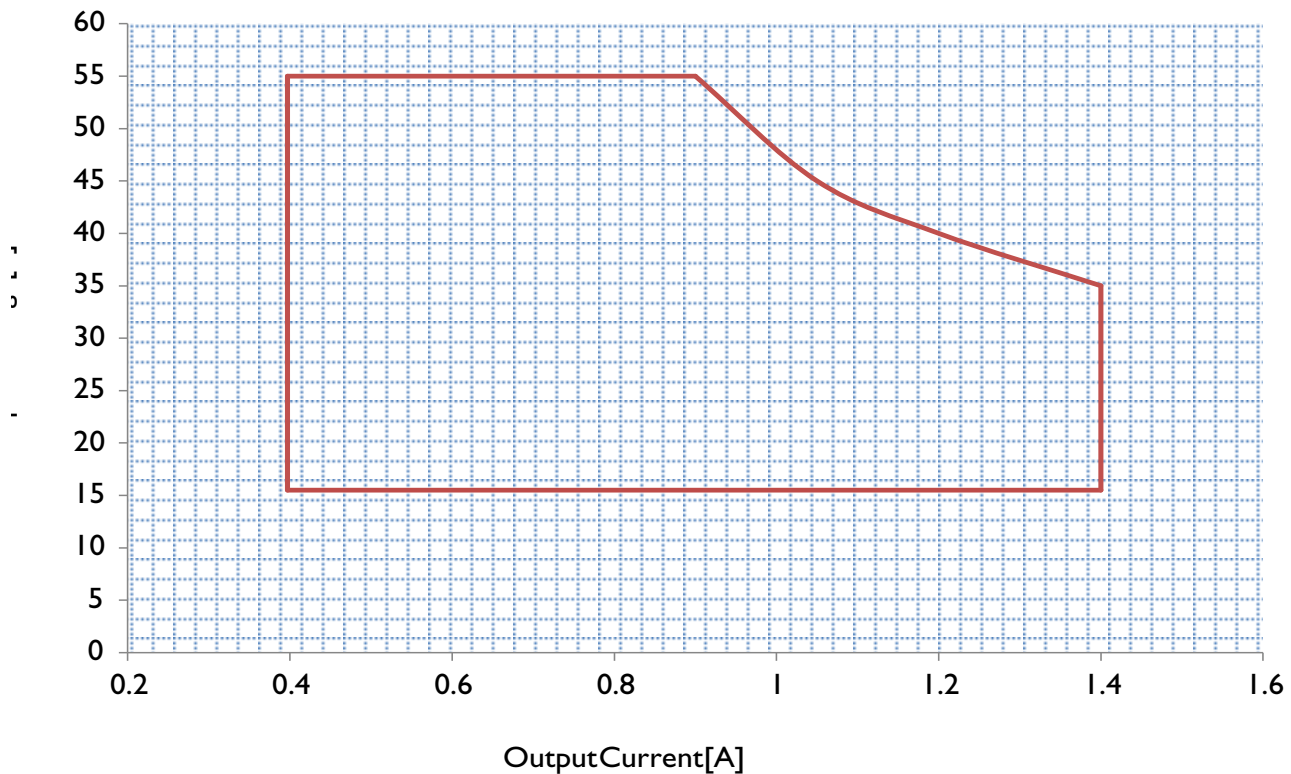
First you must have a Android device (phone/tablet) with NFC-V app downloaded.  
 Open App; then place the device on top of the driver matching up sensors until it syncs up  
 Basic format  
 Write  
 Insert the appropriate code from chart above  
 Write  
 Successfully written will appear



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



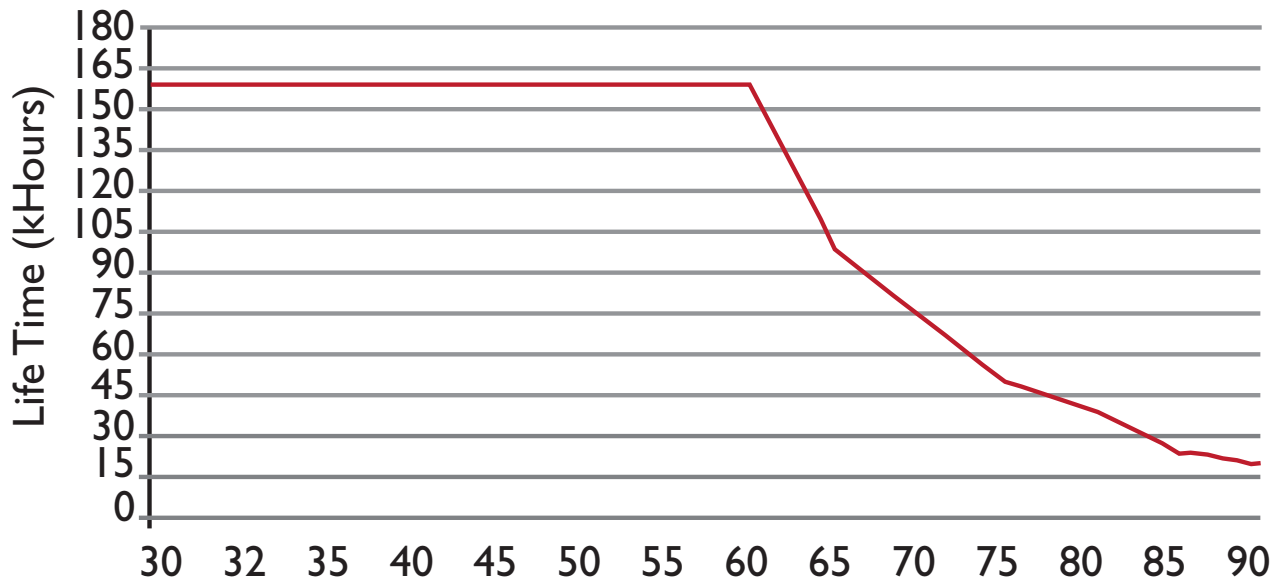
**CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM <http://www.aceleds.com/products-programmable.php>**

3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • [www.aceleds.com](http://www.aceleds.com)

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.

**Performance Characteristics**

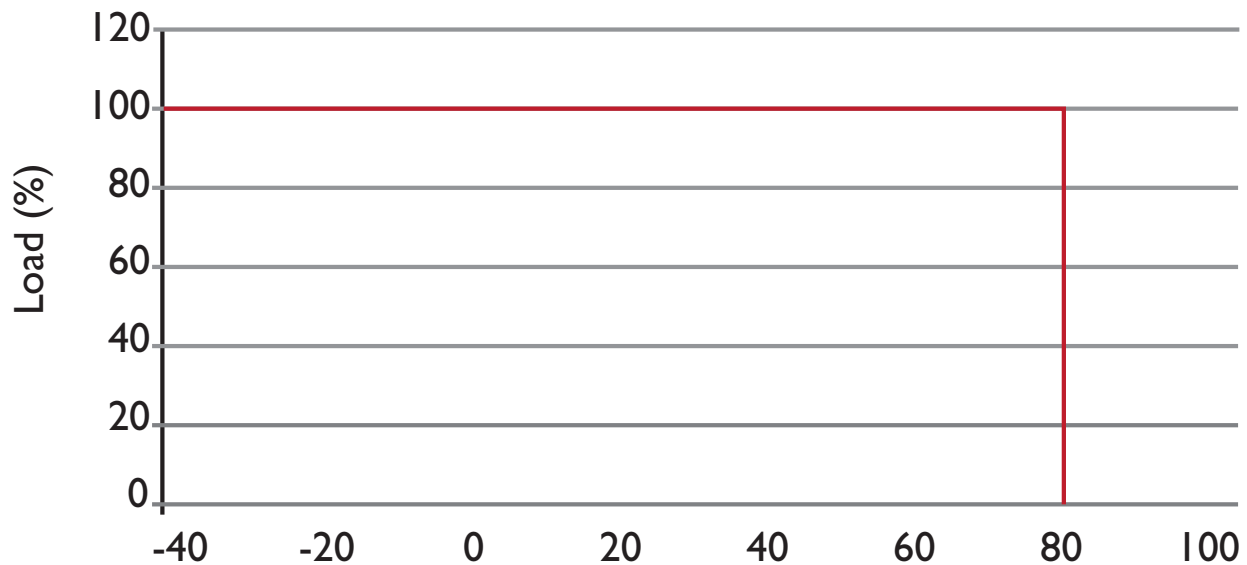
Life Time v.s. Case Temperature Curve



Case Temperature Curve (°C)

Derating Curve

120Vac & 277Vac



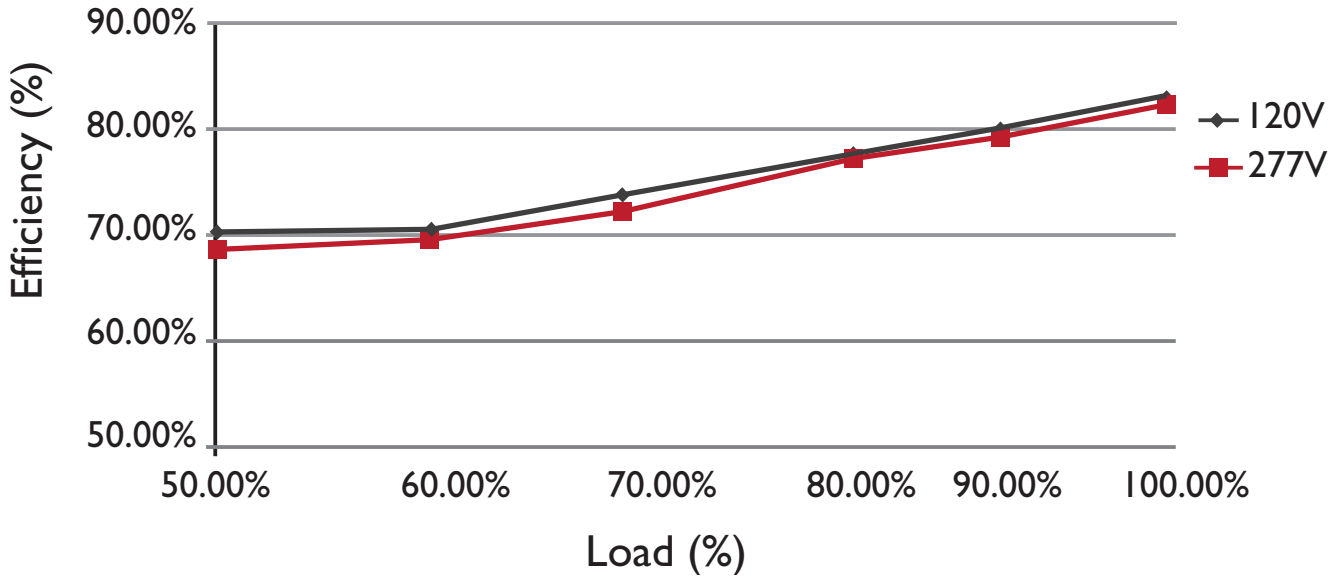
Outside Driver Ambient Temperature (°C)

3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • www.aceleds.com

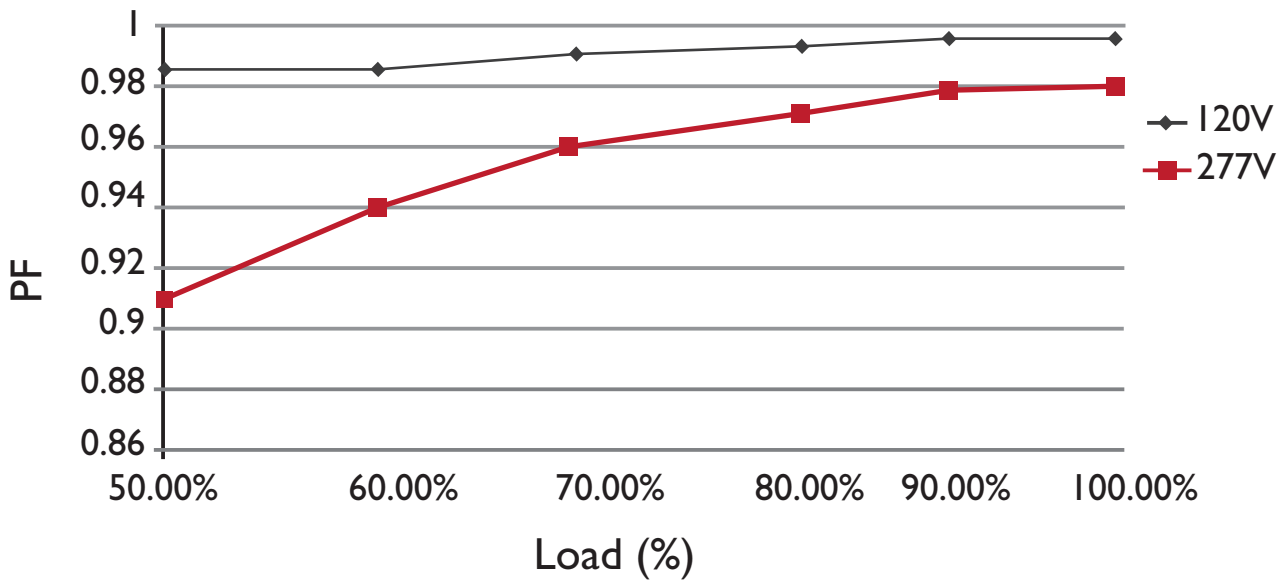
Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

**Performance Characteristics**

**Efficiency v.s. Load**



**Power Factor v.s. Load**

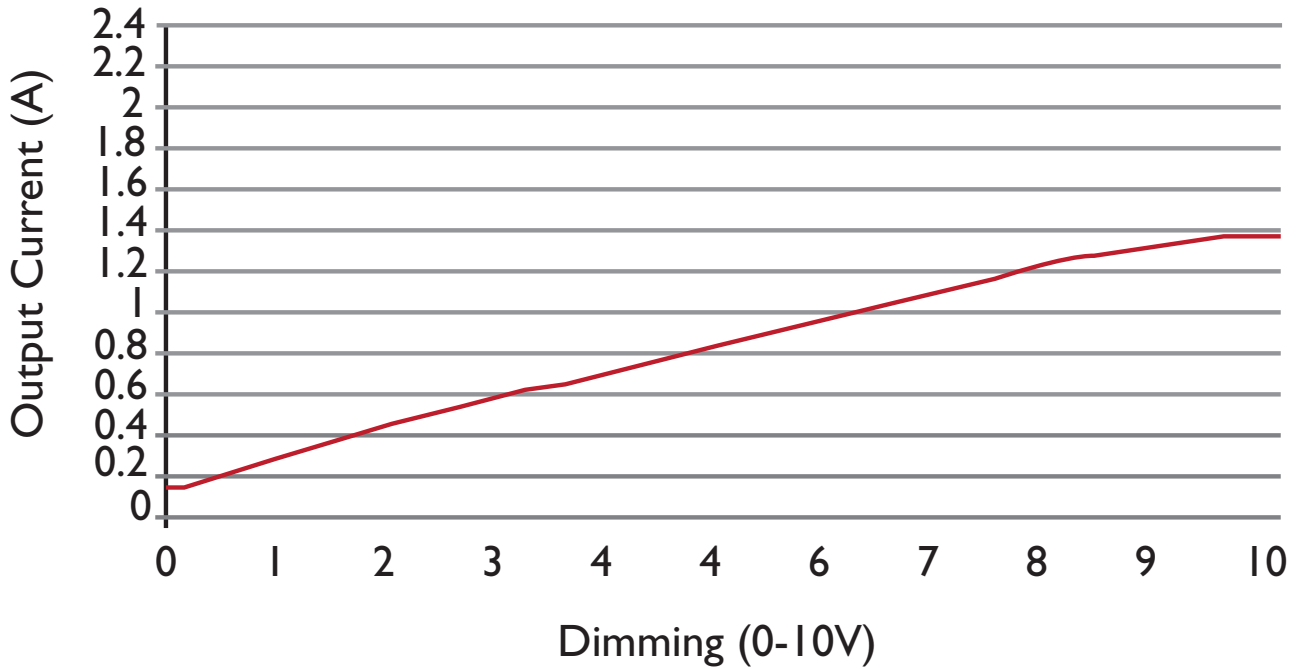


3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • [www.aceleds.com](http://www.aceleds.com)

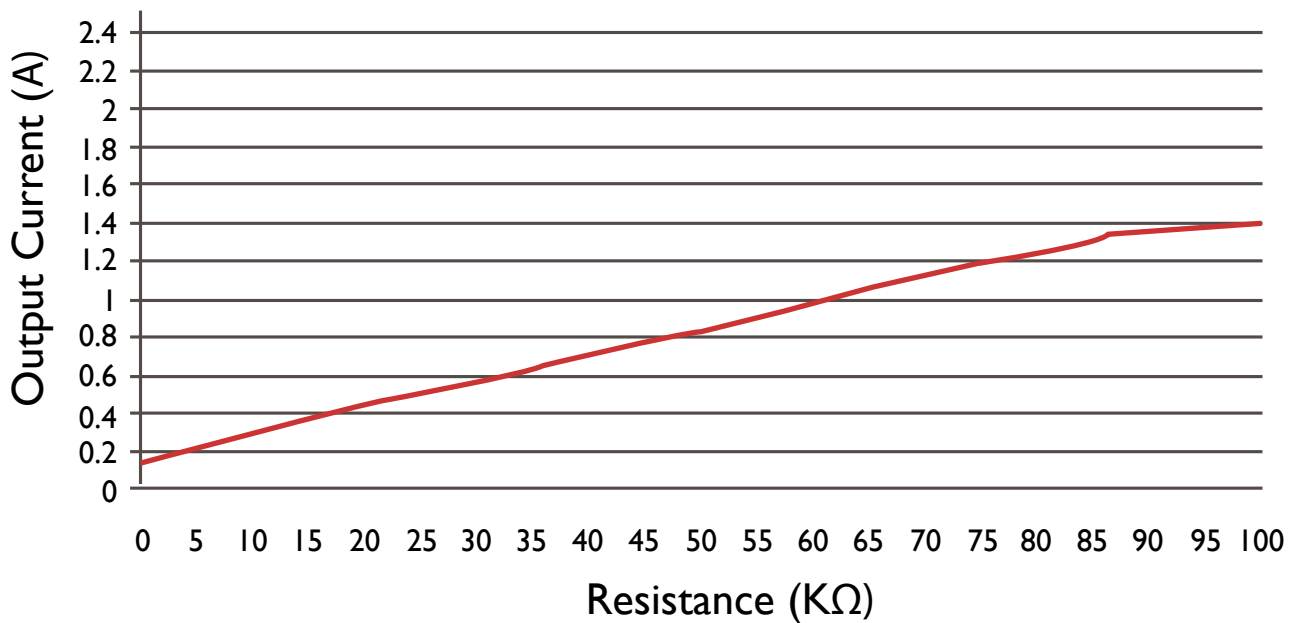
Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

**Performance Characteristics**

**Output Current v.s. Dimming**



**Output Current v.s. Resistance**



3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • [www.aceleds.com](http://www.aceleds.com)

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.