

✓ **MULTI-CURRENT SWITCHING & DIMMING**

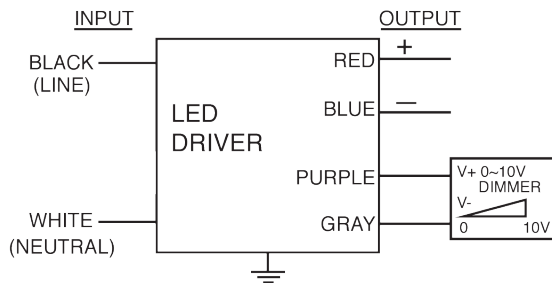
Input Voltage: 120-277V  
 Input Frequency: 50/60Hz  
 Side Mount/Leads

**I-100% Dimming**

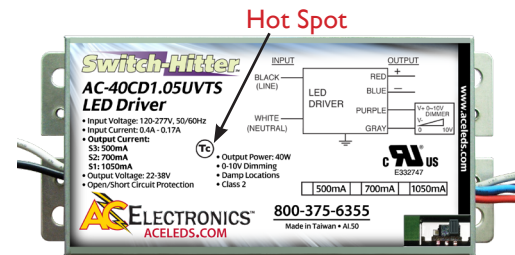
**ELECTRICAL SPECIFICATIONS:**  

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.	IP Rating	Efficiency Up To	Dimming Protocol	Dimming Range
40W	45W @ 120V 44W @ 277V	0.38A @ 120V 0.16A @ 277V	>0.95	<20%	22-38V	1050mA±5%	90° C	-40° C	64	88%	0 to 10V	1 to 100%
26W	30W @ 120V 29W @ 277V	0.25A @ 120V 0.10A @ 277V	>0.95	<20%	22-38V	700mA±5%	90° C	-40° C	64	87%	0 to 10V	1 to 100%
19W	22W @ 120V 21W @ 277V	0.18A @ 120V 0.08A @ 277V	>0.95	<20%	22-38V	500mA±5%	90° C	-40° C	64	87%	0 to 10V	1 to 100%

**WIRING:**



**PHYSICAL:**



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

Dimensions			
Length	6.5"	Mounting Length	5.9"
Width	2.9"	Weight	0.83 lbs.
Height	1.18"	Case Qty.	40 pcs.

**SAFETY & PERFORMANCE:**

- UL and cUL Recognized, Class 2
- UL Outdoor Type I
- Class A sound rating
- No PCBs
- 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)

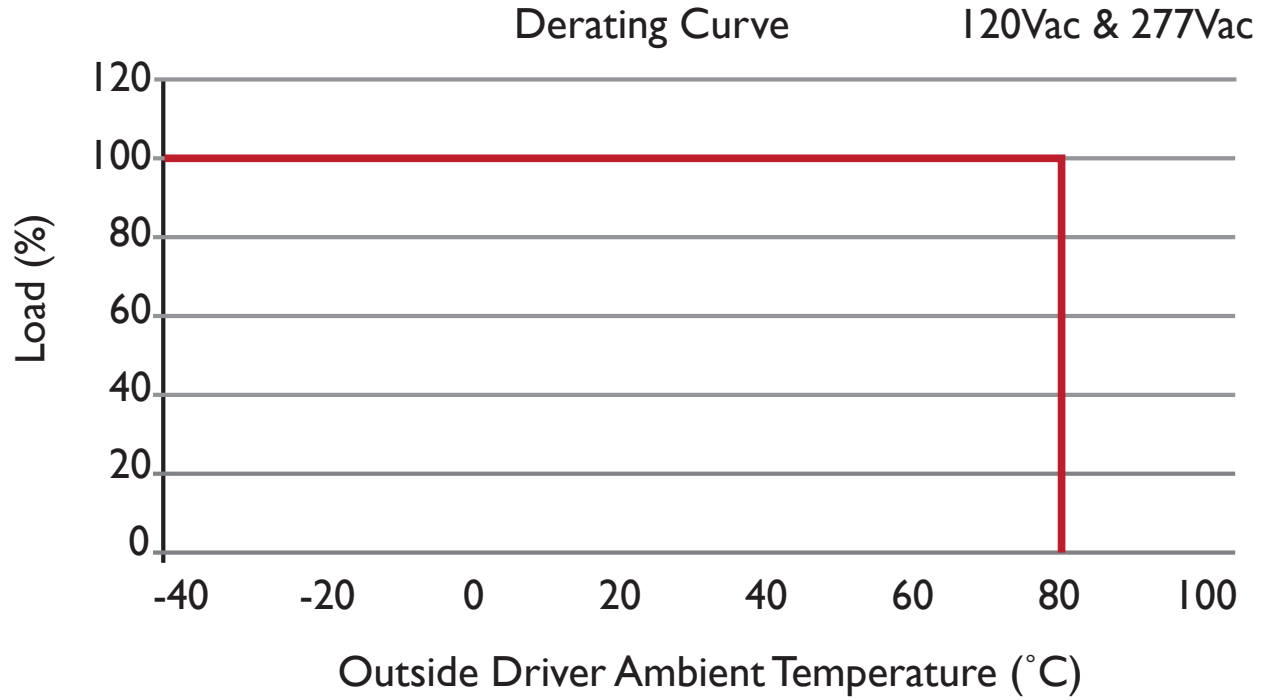
**INSTALLATION:**

- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned strand copper lead-wires are required for installation
- Max Remote installation distance is 18 ft
- LED driver cases should be grounded

\*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.

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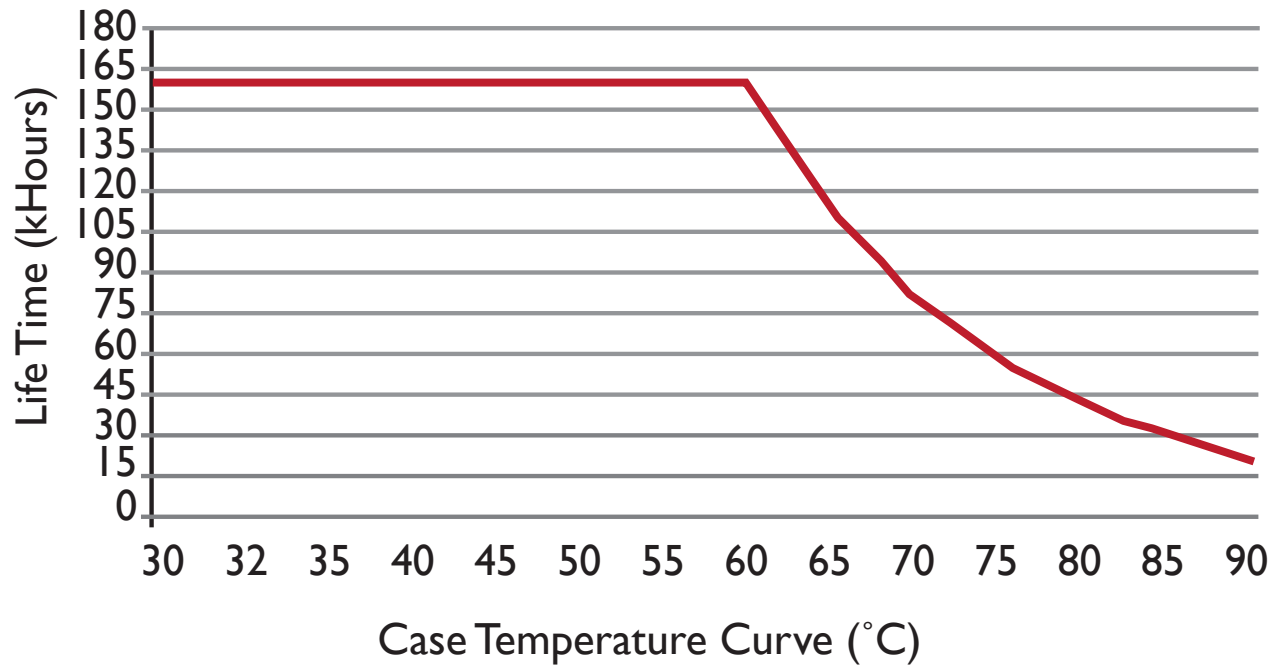
Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.



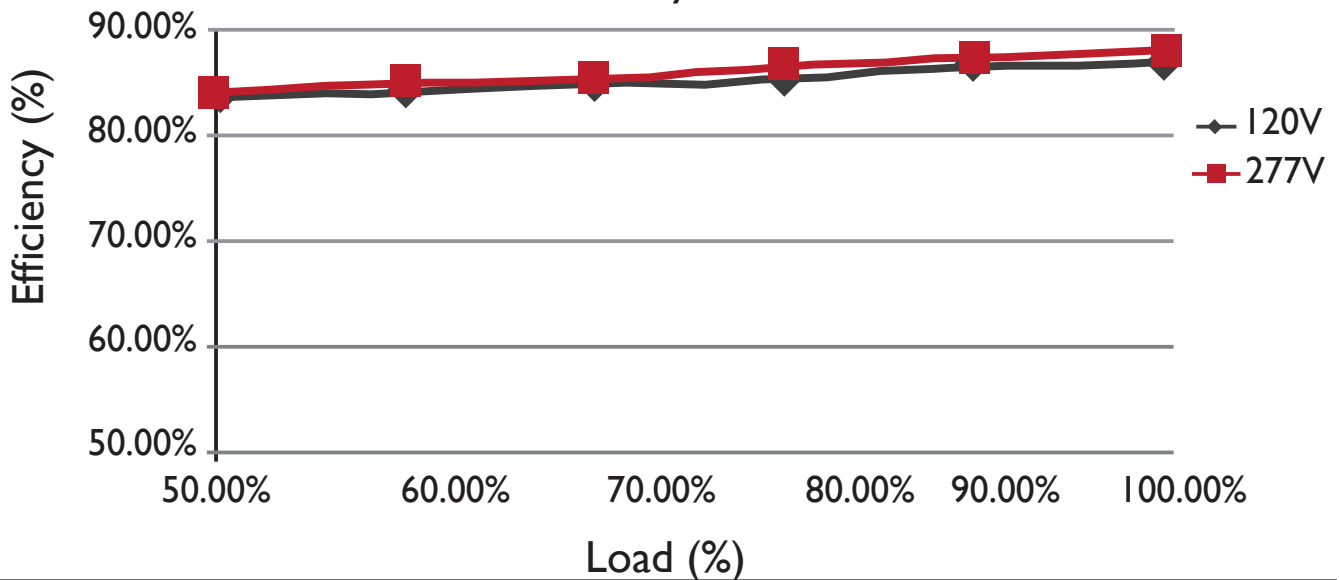
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Life Time v.s. Case Temperature Curve



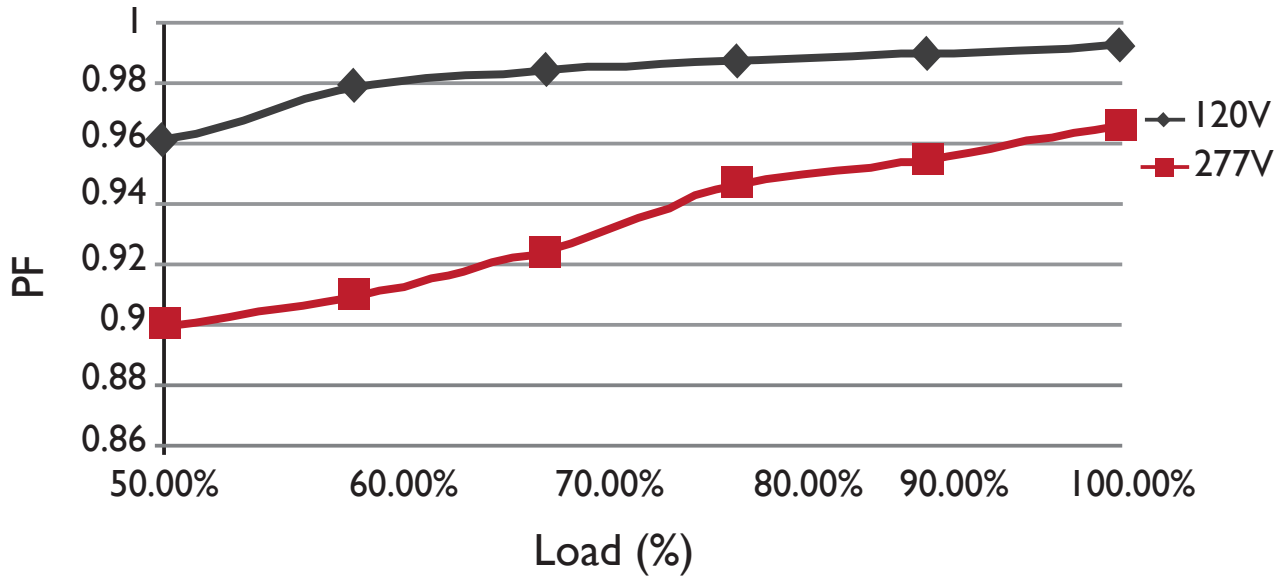
Efficiency v.s. Load



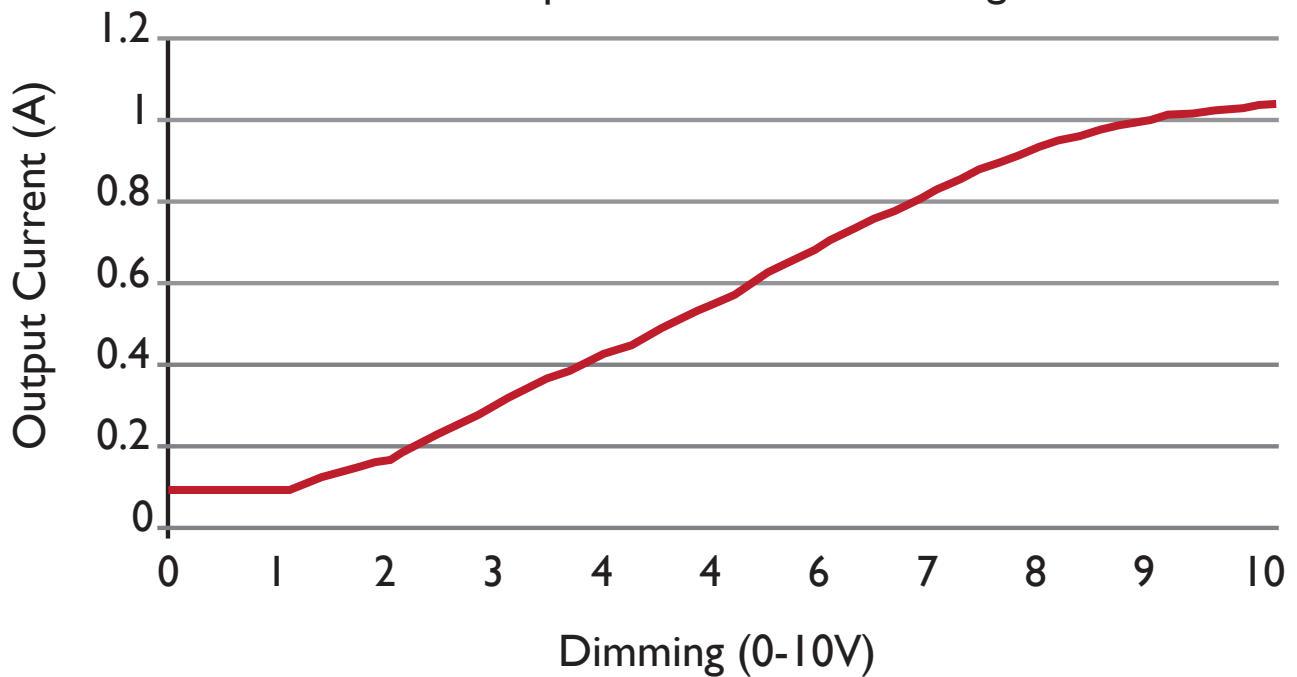
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Power Factor v.s. Load



Output Current v.s. Dimming



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### Programmable Driver Options (App Note)

All programmable drivers accept a 16-bit hexadecimal code to program the output current ( $I_{out}$ ) of the driver. The  $I_{out}$  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 84 03 **00** 01 = 1050 mA for AC-50CDI.4APNZ).

Location | 0 | 1 | **2** | 3 |

Value | 100 | 00 | **00** | 00 |

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. 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 3 values are defined as:

- **00** => Dim to 1%, Speed  $\leq$  1.0 sec
- **01** => Dim-To-OFF, Speed  $\leq$  1.0 sec
- **02** => Dim to 10%, Speed  $\leq$  1.0 sec
- **03** => Dim to 1%, Speed  $\geq$  2.5 sec
- **04** => Dim-To-Off, Speed  $\geq$  2.5 sec
- **05** => Dim to 10%, Speed  $\geq$  2.5 sec

As an example, if the programming code value of 84 03 **00** 01 is programmed, the output current will be 1050 mA, and the driver will dim to 1% and the dimming speed will be  $\leq$  1.0 sec. If the programming code of 84 03 **04** 01 is programmed, the output current will be 1050 mA, and the driver will dim to off and the dimming speed will be  $\geq$  2.5 sec.

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