



**Programmable, Digital,  
Wide-Range Adjustable Current & Dimming**

## Constant Current LED Driver

Model Number:  
\* **AC-40CD1.4APMZ**  
**AC-40CD1.4APBKV**  
**AC-40CD1.4APSC**

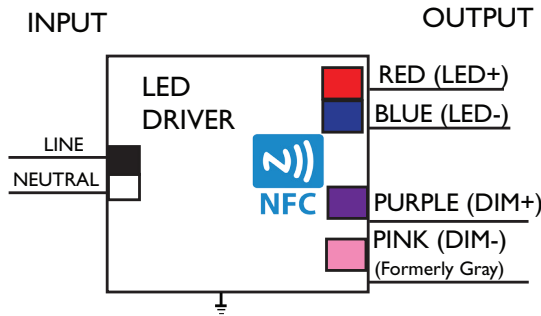
Input Voltage: 120-277V  
Input Frequency: 50/60Hz  
Side and Bottom Mount/Leads Options  
< 1 Sec. Start time/(Starting with batch code AKT.48)

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

\*\* 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.**

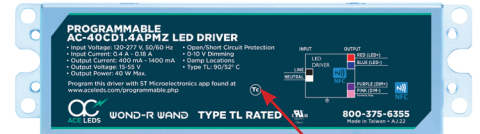
### Lead Lengths

Black	6"	Blue	6"	Purple	7.1"
White	6"	Red	6"	Pink	7.1"

### PHYSICAL:



Bottom Mount  
Model No:  
AC-40CD1.4APBKV



Hot Spot

ONLY - AC-40CD1.4APMZ (1Kv)  
Sensor Area is on the bottom  
with a NFC Sensor Label

Dimensions	Length	Width	Height	Mounting
AC-40CD1.4APMZ	6.22"	1.73"	1.22"	5.86"
AC-40CD1.4APBKV	4.56"	2.48"	1.18"	
AC-40CD1.4APSC	12.8"	1.34"	1.06"	12.5"

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

### SAFETY:

- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- Input/Output Isolation
- LED driver has a life expectancy of 50,000 hours at Tcase of  $\leq 75^{\circ}\text{C}$
- 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 of  $90^{\circ}\text{C}^*$
- FCC Title 47 CFR Part 15
- Surge Protection (3 KV)

### INSTALLATION:

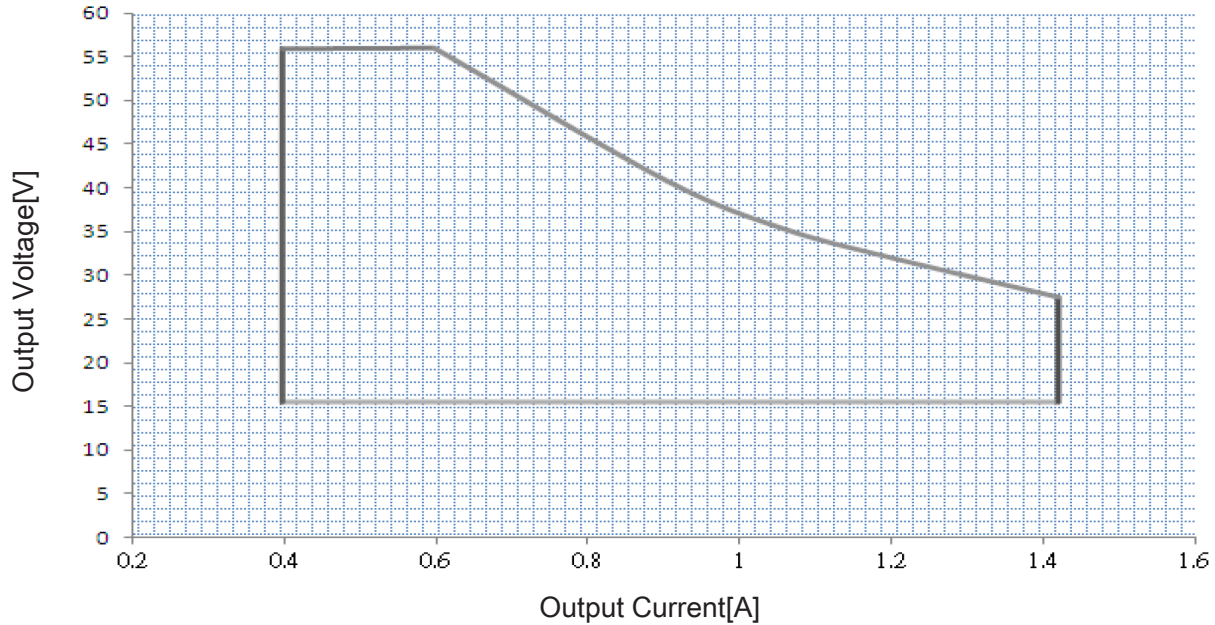
- Max Remote installation distance is 18 ft
- LED driver cases should be grounded
- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned stranded copper lead-wires are required for installation

\*AC Electronics/AC LEDS 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  $90^{\circ}\text{C}$  when properly installed and under normal conditions of use. See [aceleds.com](http://aceleds.com) for complete warranty policy.

**For questions or to place an order contact us at [oemsales@aceleds.com](mailto:oemsales@aceleds.com) or 800-375-6355 or your local WPG Americas Sales representative at [inquiry@wpgamericas.com](mailto:inquiry@wpgamericas.com) or 888-WPG8881**

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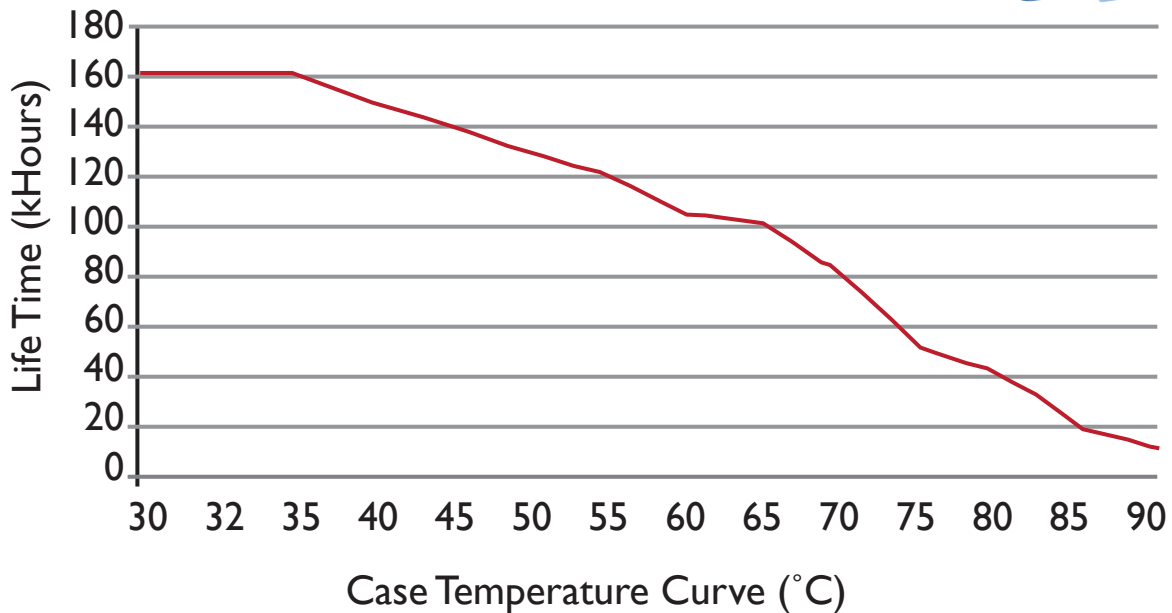
### IOUT/VOUT CURVE



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



### Life Time v.s. Case Temperature Curve



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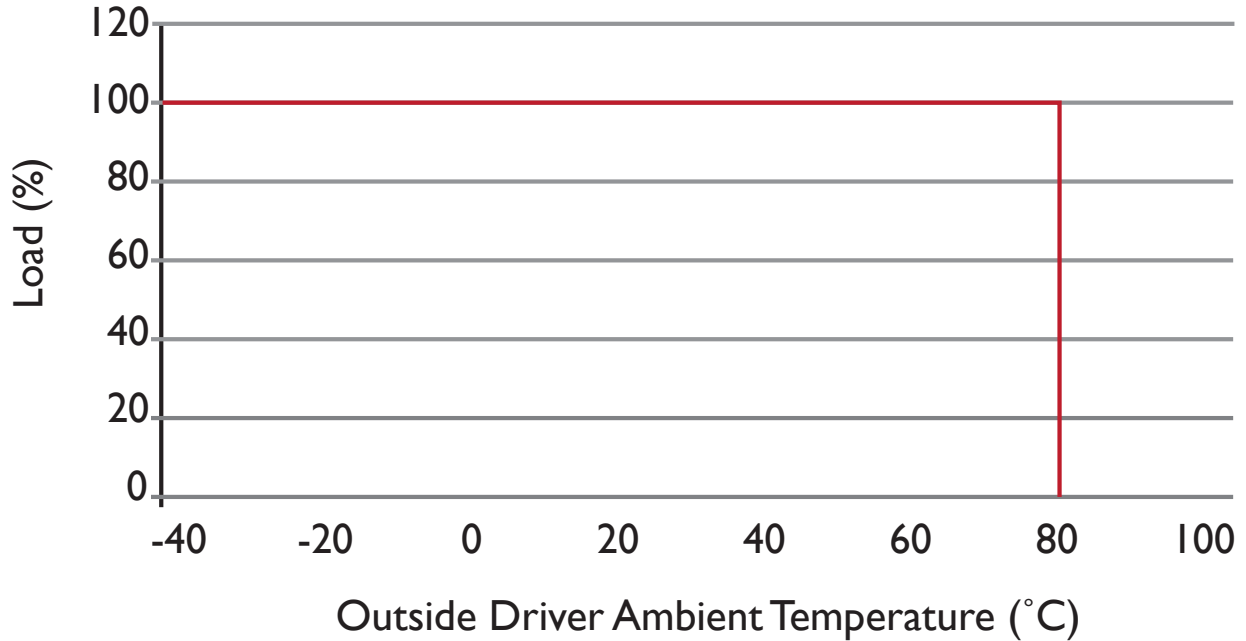


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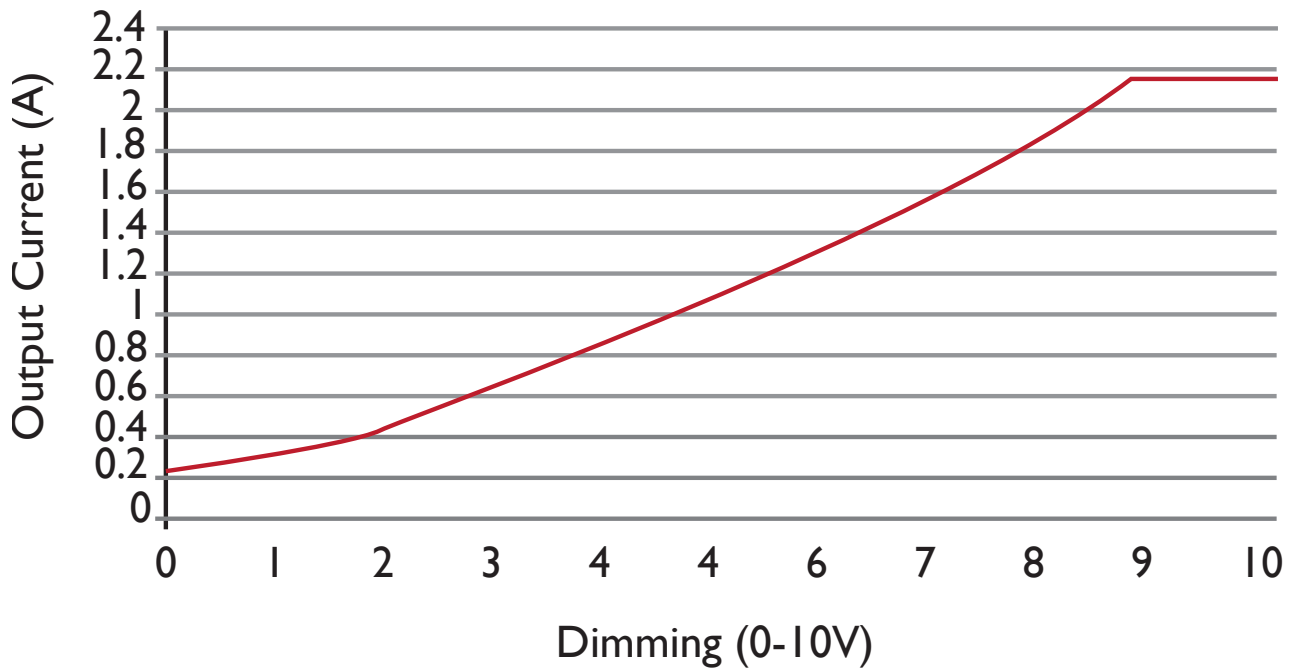
### PERFORMANCE CHARACTERISTICS

Derating Curve

120Vac & 277Vac



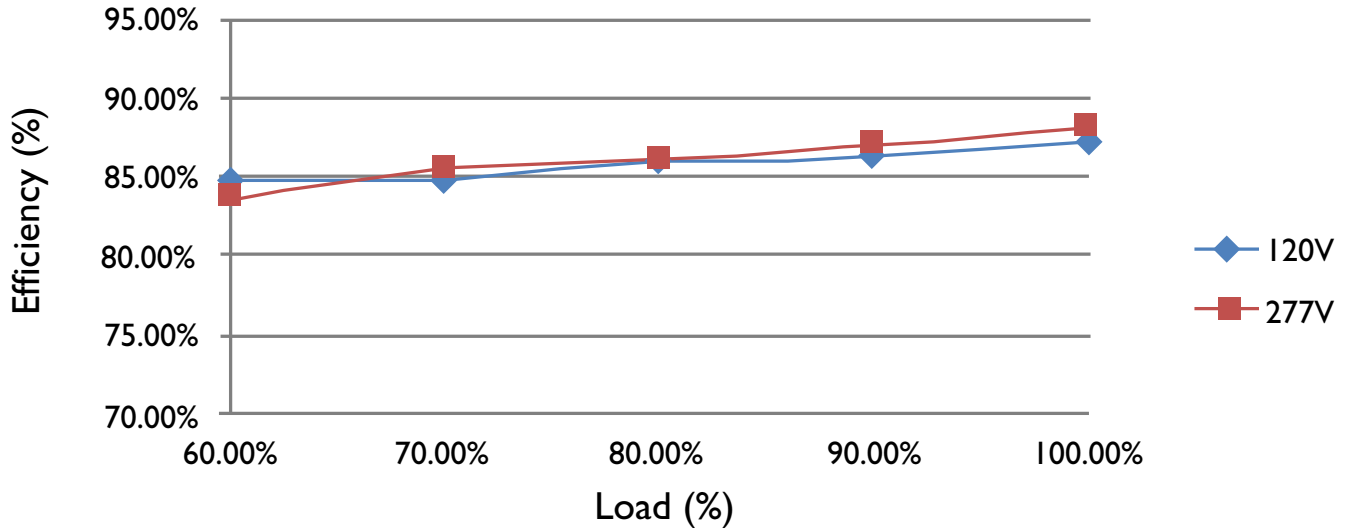
Output Current v.s. Dimming



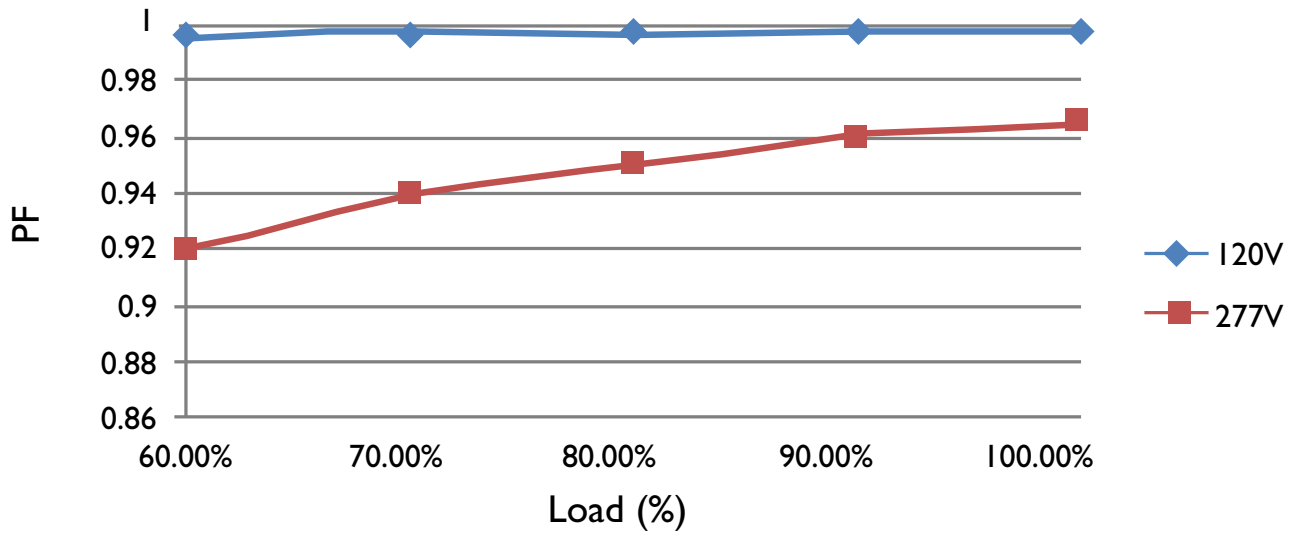
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PERFORMANCE CHARACTERISTICS

Efficiency v.s. Load



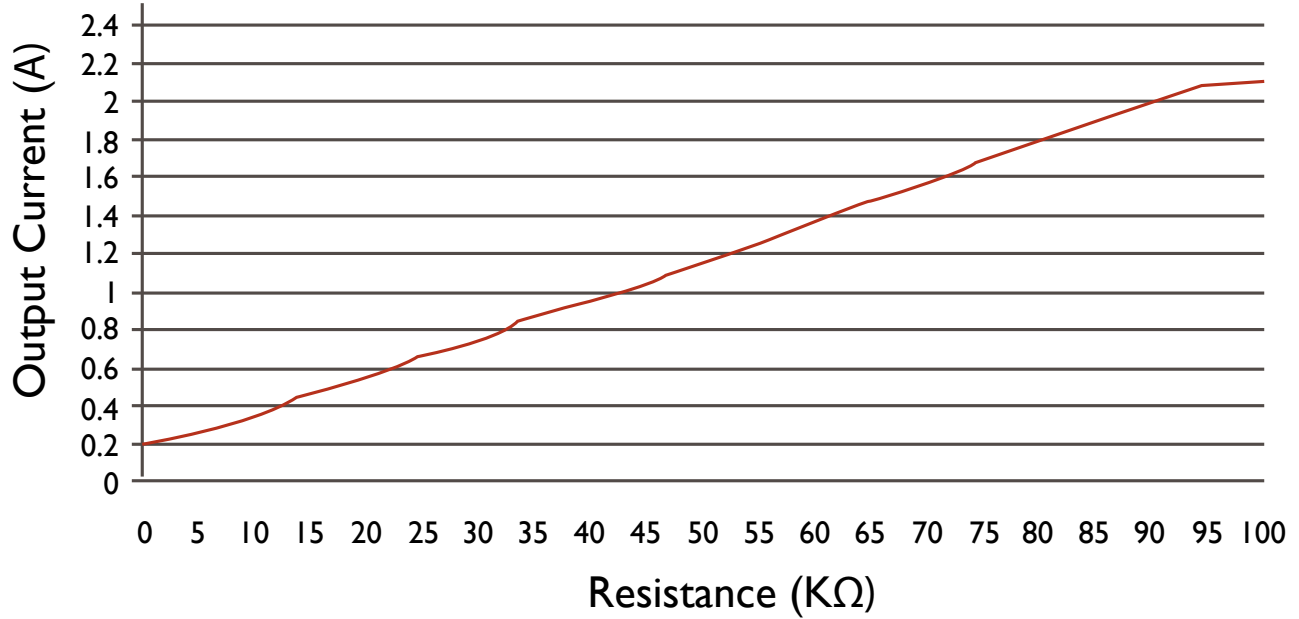
Power Factor v.s. Load



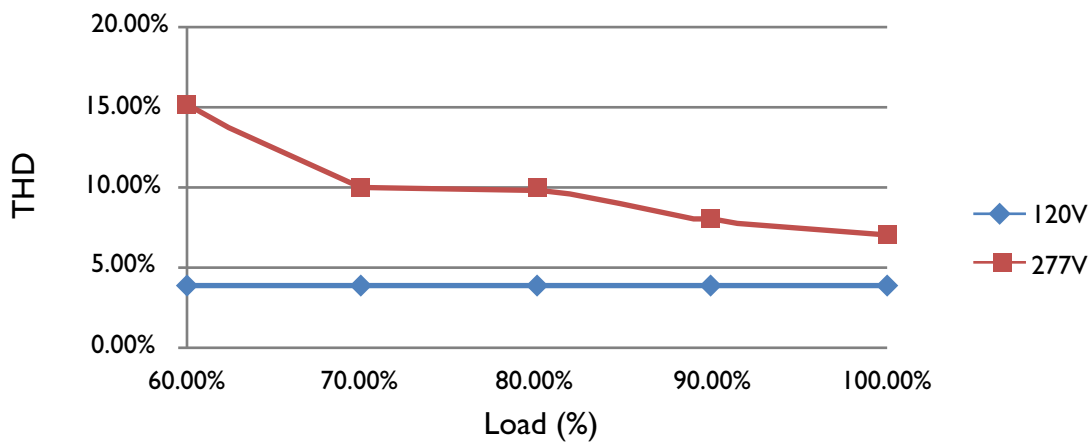
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PERFORMANCE CHARACTERISTICS

Output Current v.s. Resistance



THD% v.s. Load



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