

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)



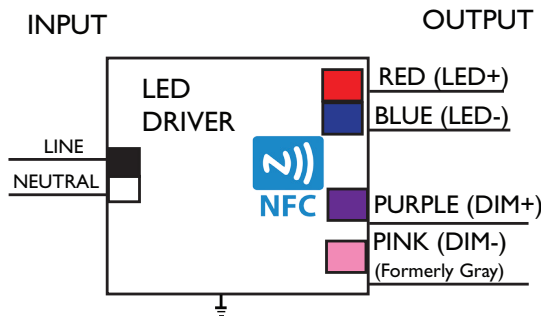
**Programmable, Digital,
 Wide-Range Adjustable Current & Dimming**

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** | 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% | 0 to 10V | 1 to 100% | 64 |

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

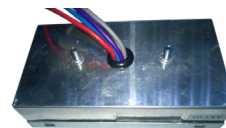
WIRING:



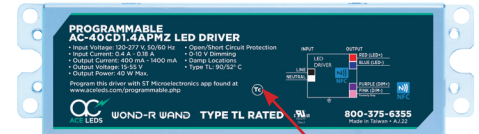
Note: Gray (-) dimming wire has been changed to pink per the 2020 NEC section 410.69 and NEMA.

| Lead Lengths | | | | | |
|--------------|------|------|------|--------|------|
| Black | 5.9" | Blue | 5.9" | Purple | 7.1" |
| White | 5.9" | Red | 5.9" | 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 ≤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*
- FCC Title 47 CFR Part 15
- Surge Protection (3 KV)

INSTALLATION:

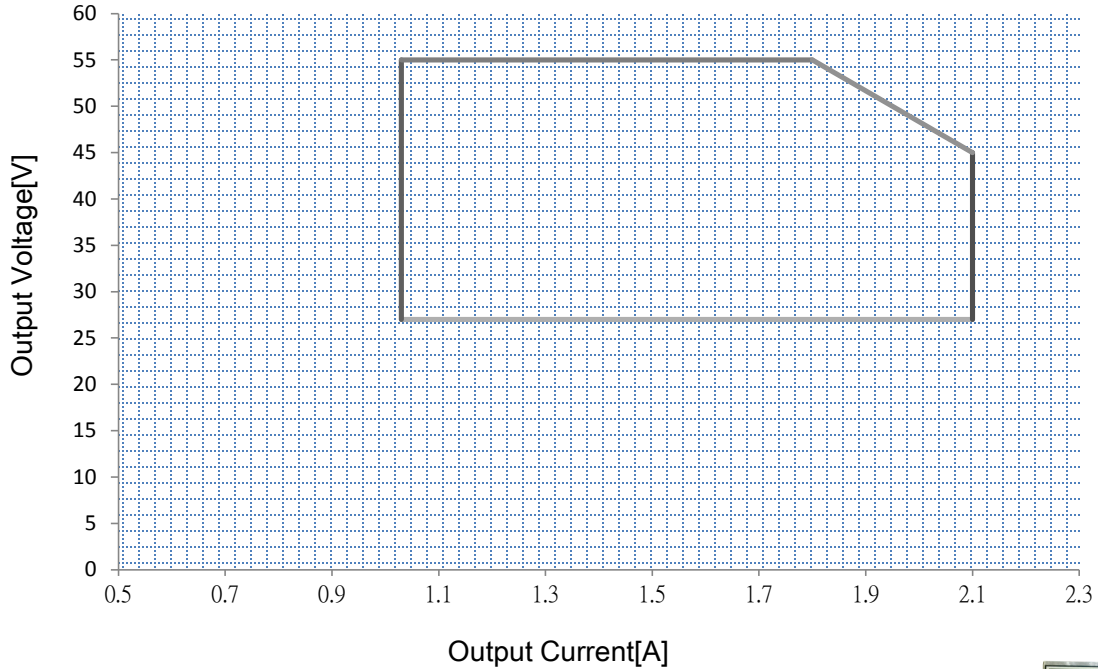
- Max Remote installation distance is 18 ft
- LED driver cases should be grounded
- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned stranded copper lead-wires are required for installation



*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 for complete warranty policy.

For questions or to place an order contact us at oemsales@aceleds.com or 800-375-6355 or your local WPG American Sales representative at inquiry@wpgamericas.com or 888-WPG8881

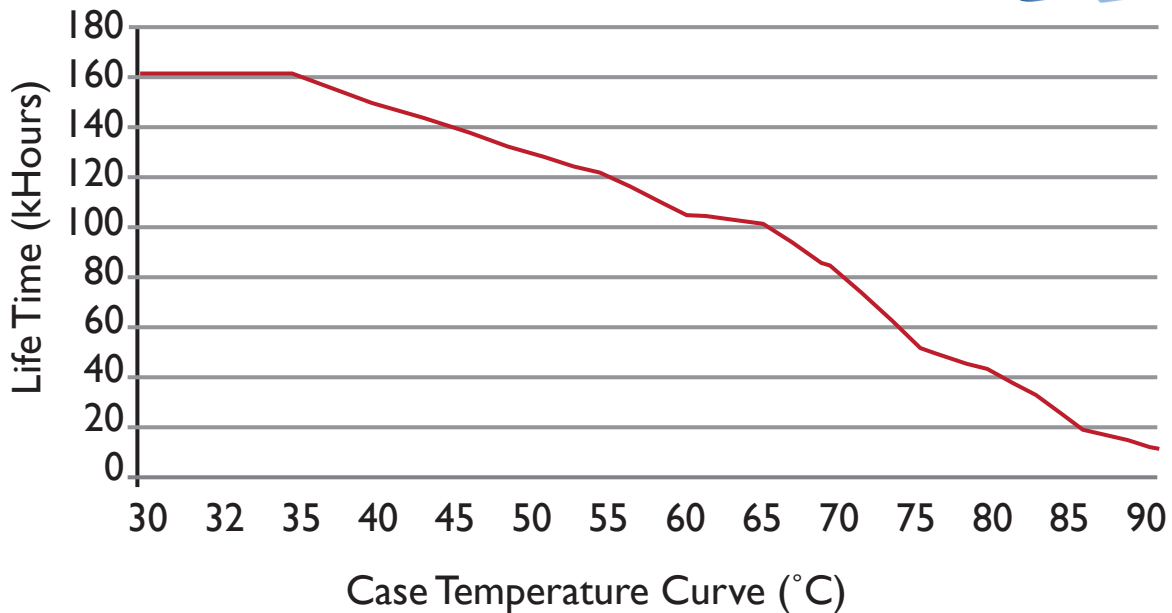
IOUT/VOUT CURVE



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



Life Time v.s. Case Temperature Curve

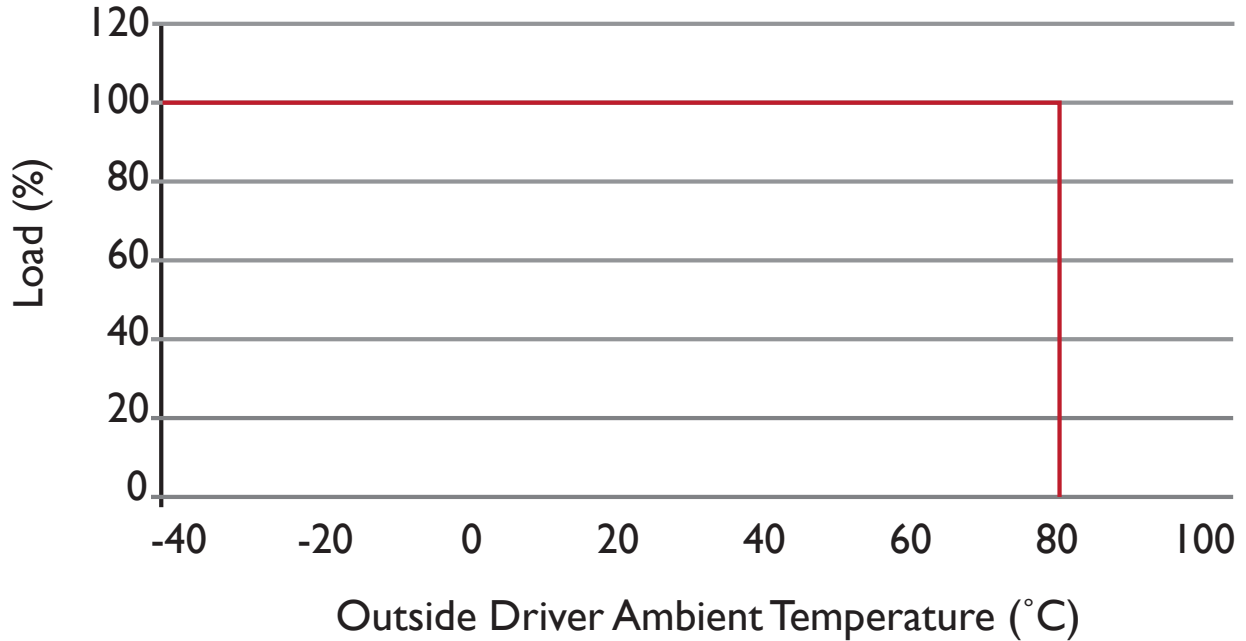


For questions or to place an order contact us at oemsales@aceleds.com or 800-375-6355 or your local WPG American Sales representative at inquiry@wpgamericas.com or 888-WPG8881

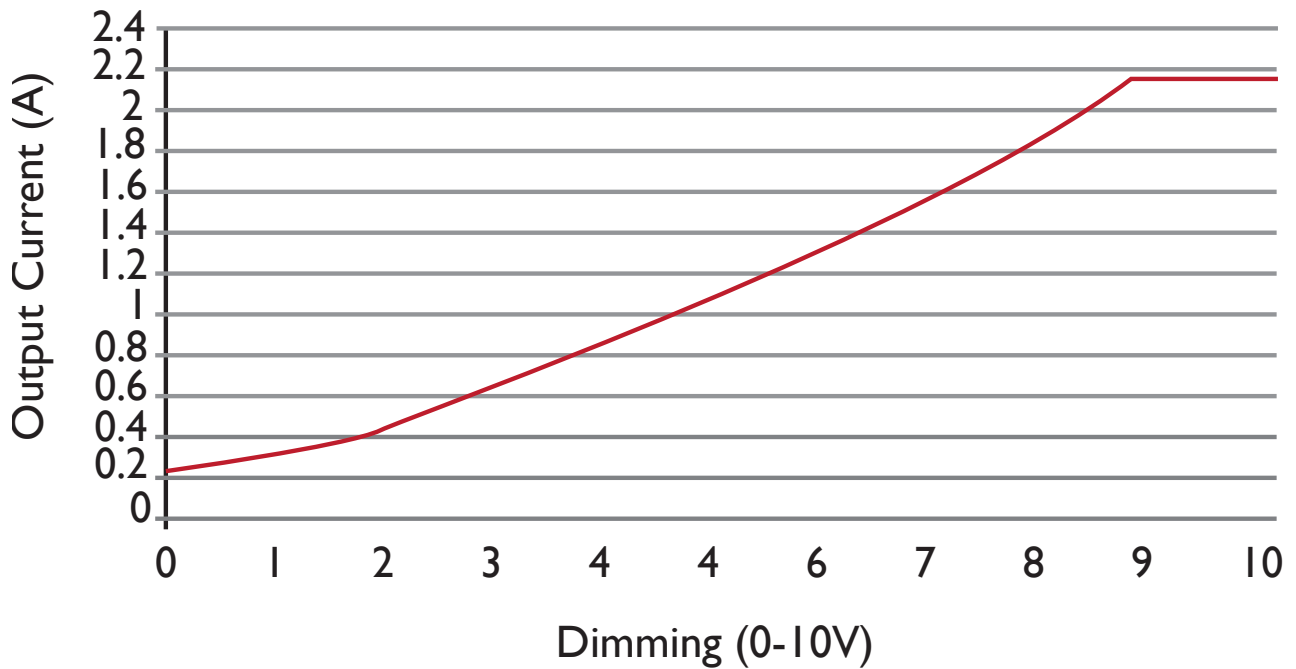
PERFORMANCE CHARACTERISTICS

Derating Curve

120Vac & 277Vac



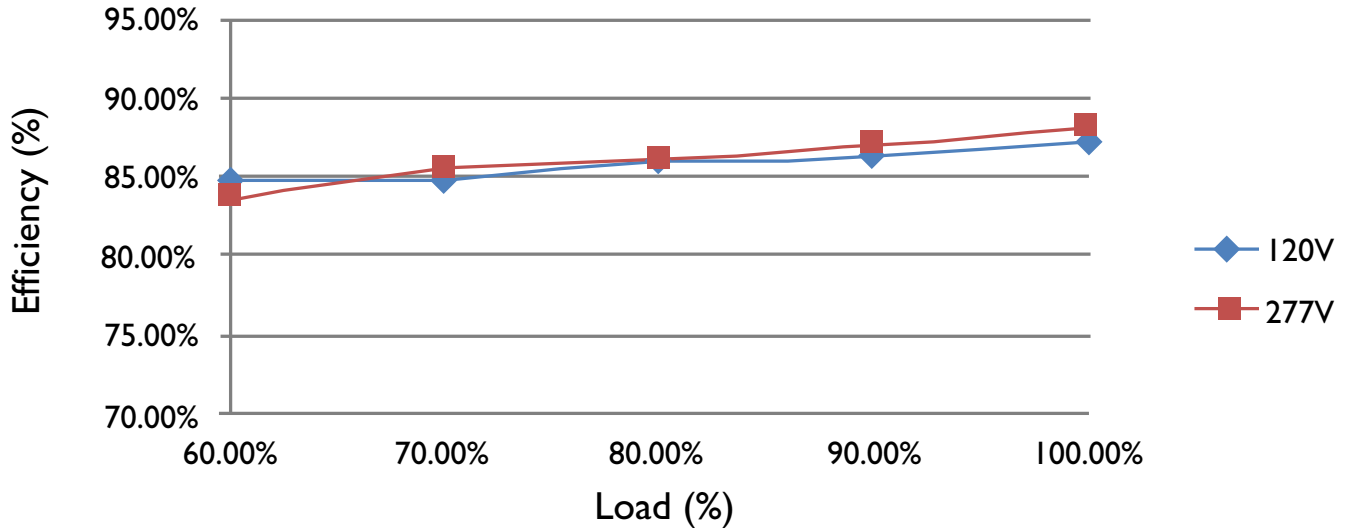
Output Current v.s. Dimming



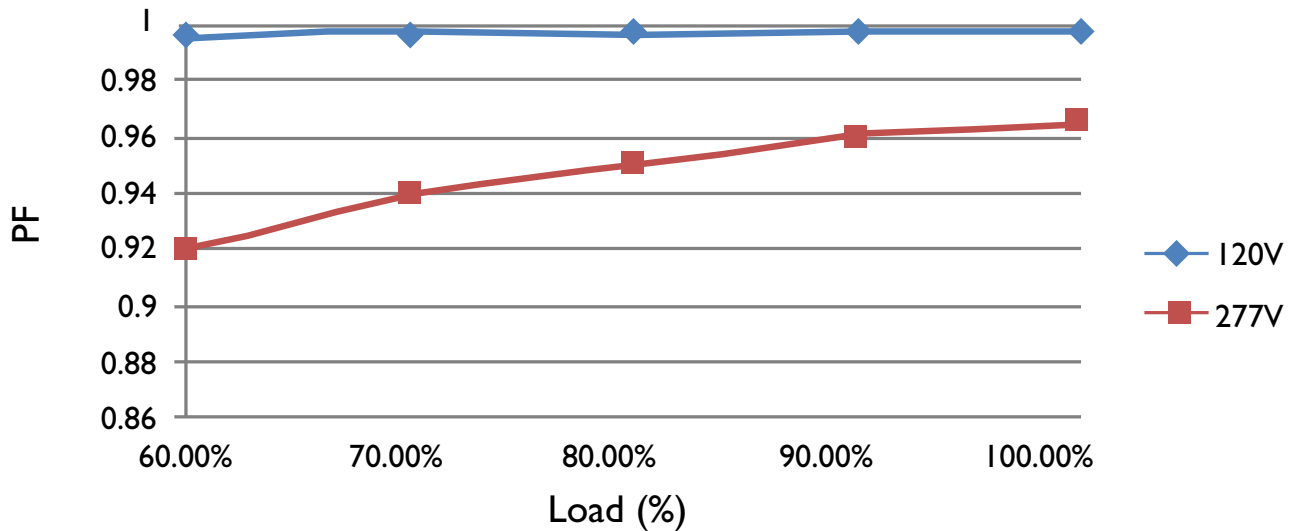
For questions or to place an order contact us at oemsales@aceleds.com or 800-375-6355 or your local WPG American Sales representative at inquiry@wpgamericas.com or 888-WPG8881

PERFORMANCE CHARACTERISTICS

Efficiency v.s. Load



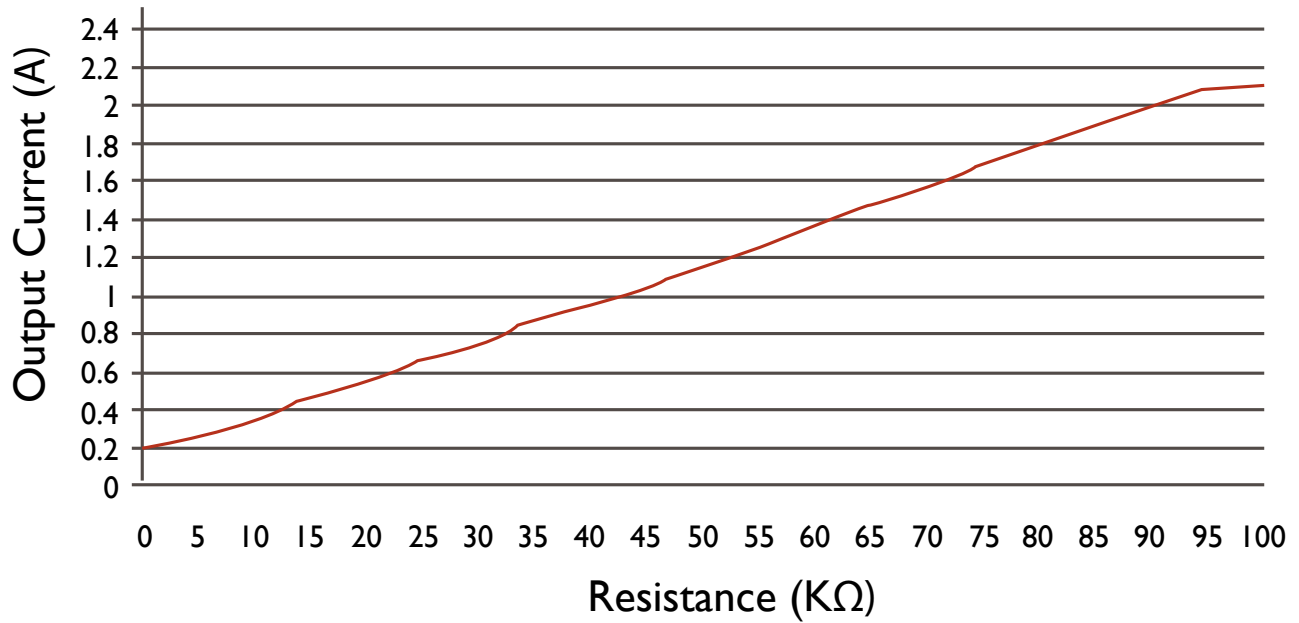
Power Factor v.s. Load



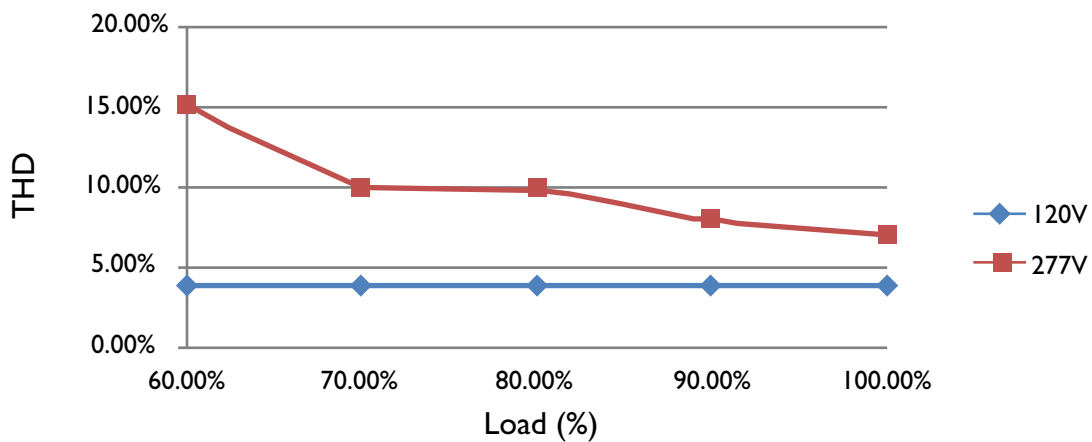
For questions or to place an order contact us at oemsales@aceleds.com or 800-375-6355 or your local WPG American Sales representative at inquiry@wpgamericas.com or 888-WPG8881

PERFORMANCE CHARACTERISTICS

Output Current v.s. Resistance



THD% v.s. Load



For questions or to place an order contact us at oemsales@aceleds.com or 800-375-6355
 or your local WPG American Sales representative at inquiry@wpgamericas.com or 888-WPG8881