AC ELECTRONICS™
ACELEDS.COM

Constant Current LED Driver

Model Number
AC-40CD1.4BPKV
* AC-40CD1.4BPMZ
AC-40CD1.4BPBKV
* AC-40CD1.4BPBMZ

P1

Energy EPA POLLUTION PREVENTER

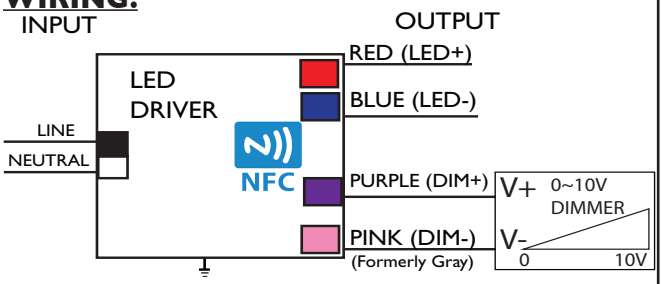
PROGRAMMABLE, DIGITAL, WIDE-RANGE AJUSTABLE CURRENT & DIMMING TYPE TL RATED

Input Voltage: 347V
Input Frequency: 50/60Hz
Side & Bottom Mount/Leads Options
< 1 Sec. Start time/(Starting with batch code AKT.48)
Dim-to-1% (Default)

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	47W	0.143@347V	>95	<20	15-55V	400mA - 1400mA	90°C	-40°C	64	85%	0 to 10V	1 to 100%

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"

Tref Max Value (°C)	Tc/Tref Value (°C)	Ta Value (°C)
90	48.5	40

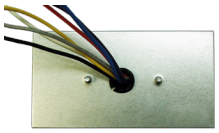
PHYSICAL:

Hot Spot

AC-40CD1.4BPKV

AC-40CD1.4BPMZ (1 Kv)

Hot Spot



AC-40CD1.4BPBKV Bottom Mount
AC-40CD1.4BPBMZ Bottom Mount(1 Kv)

Model	Length	Width	Height	Mounting
AC-40CD1.4BPKV	5.23"	2.48"	1.18"	4.84"
AC-40CD1.4BPMZ	6.22"	1.73"	1.22"	5.86"
AC-40CD1.4BPBKV	4.56"	2.48"	1.18"	xxxx
AC-40CD1.4BPBMZ	6.22"	1.73"	1.22"	5.86"

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

SAFETY:

- UL and cUL Recognized
- UL Outdoor Type 1
- 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)
- Surge Protection (1Kv)*
- Dim-To-Off Programming Option
  - o Active: Code = 78 05 01 01
  - o Inactive: Code = 78 05 00 01
- Gray (-) dimming wire has been changed to pink per the 2020 NEC section 410.69 and NEMA.

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

c UL us

*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.

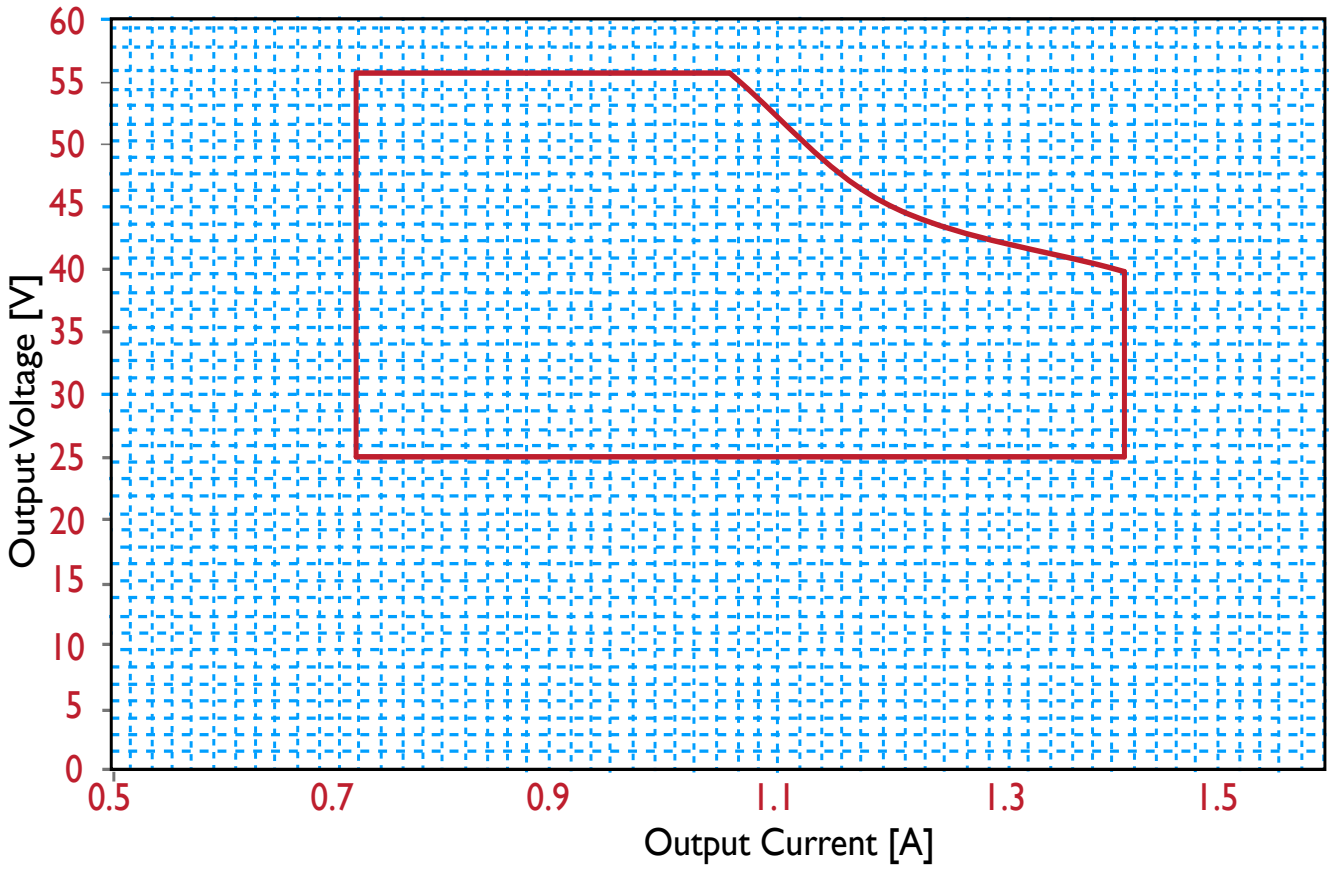
3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • www.aceleds.com

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.

RoHS COMPLIANT LEAD-FREE

Revised 09/29/2021

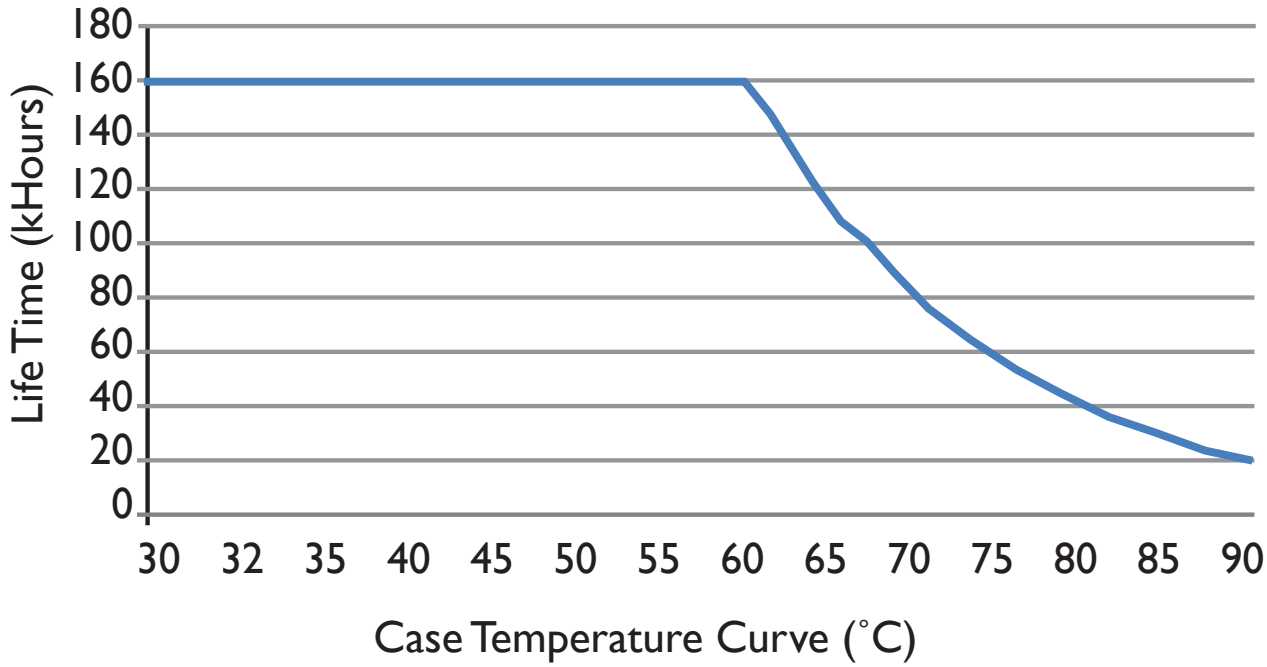
IOUT/VOUT CURVE



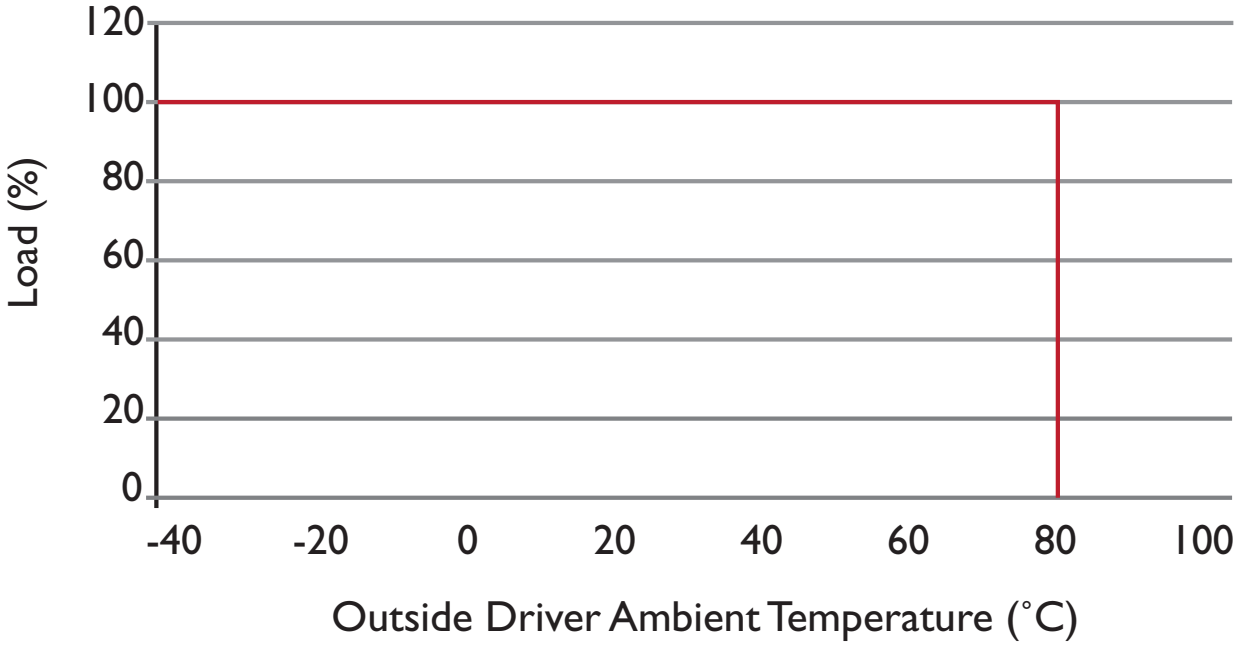
CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM http://www.aceleds.com/products-programmable.php

Performance Characteristics

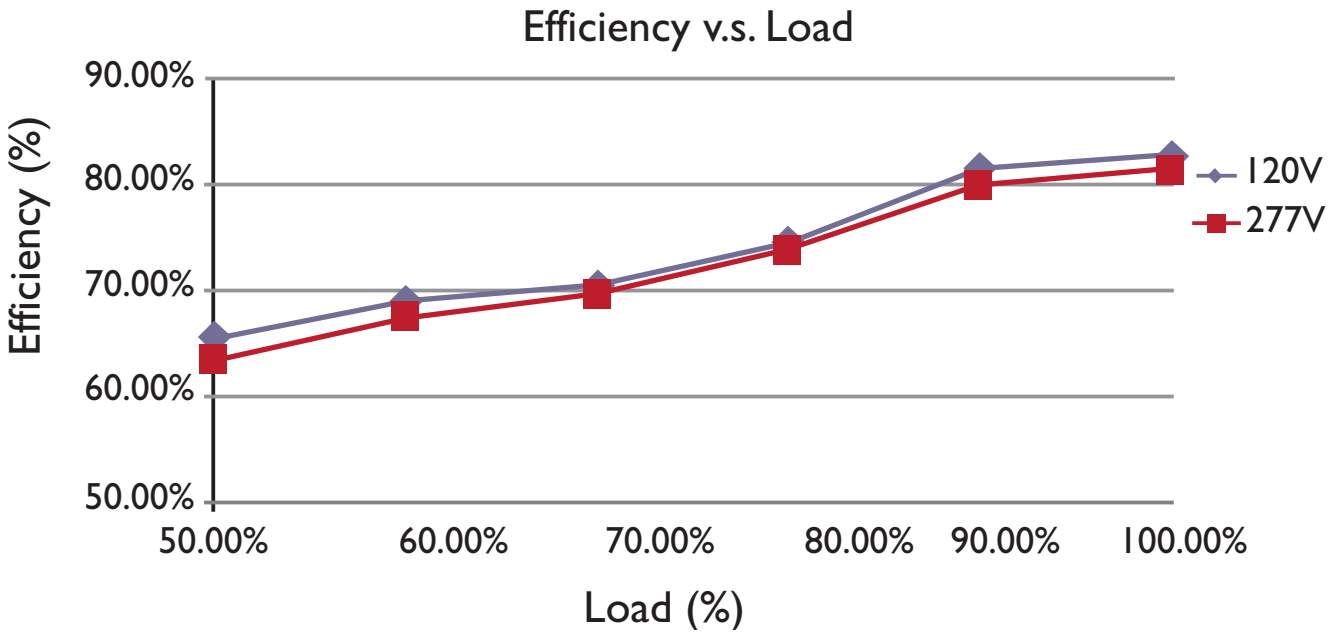
Life Time v.s. Case Temperature Curve

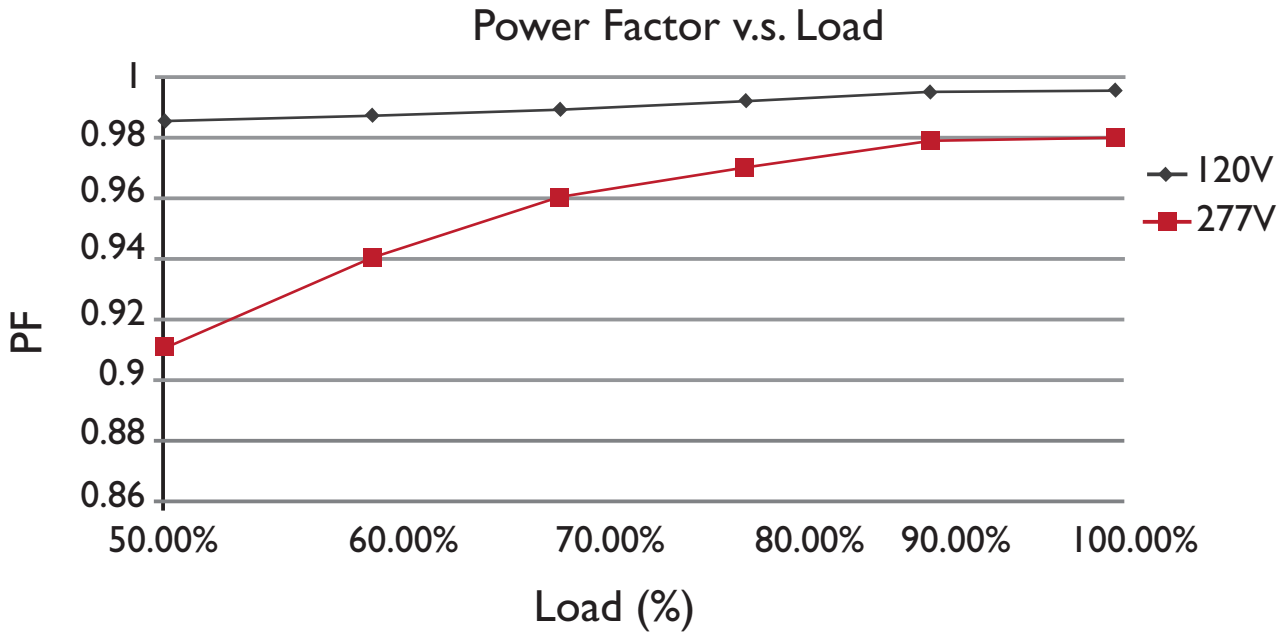


Derating Curve 120Vac & 277Vac



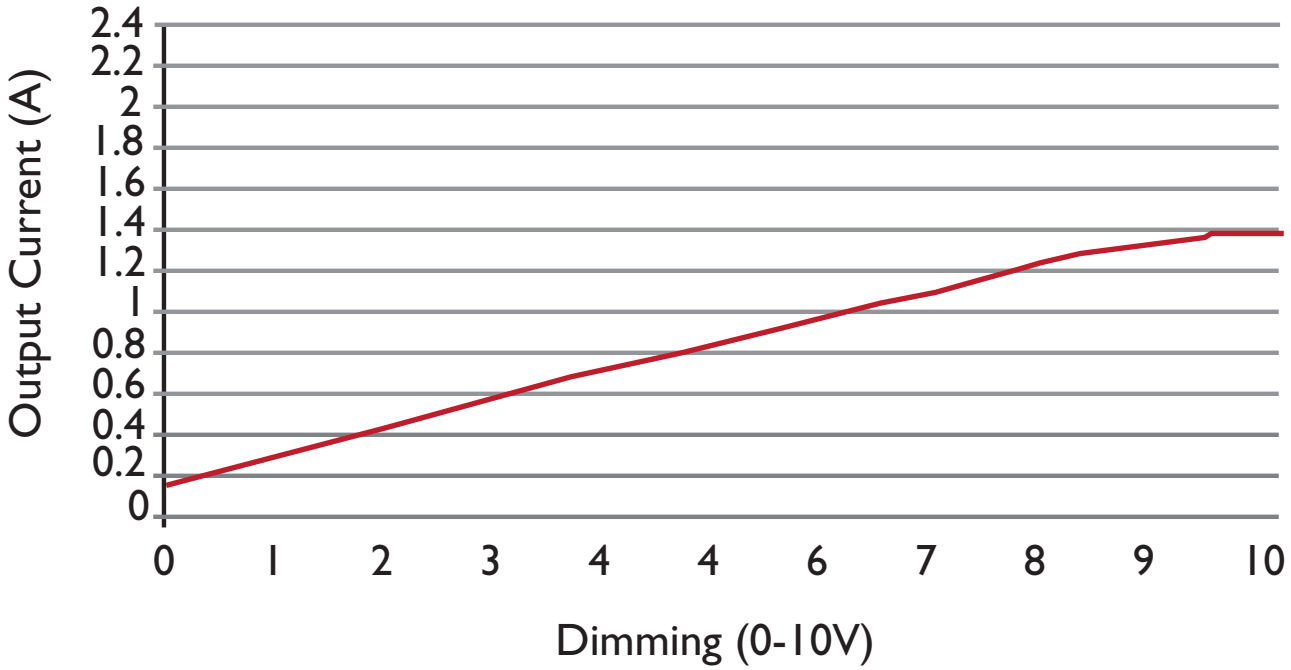
Performance Characteristics





Performance Characteristics

Output Current v.s. Dimming



Output Current v.s. Resistance