AC Electronics™
ACELEDS.COM

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

Constant Current LED Driver
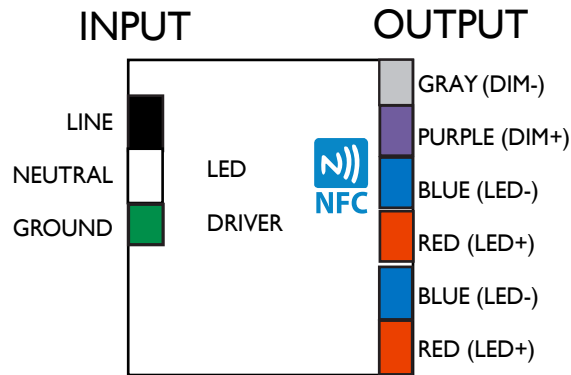
Model Number
AC-30CD1.25APUP

Input Voltage: 120-277V

Input Frequency: 50/60Hz

Side Mount/Lead
< 1 Sec. Start time/(Starting with batch code AKT.48)

ELECTRICAL SPECIFICATIONS:

Output Power	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	Dimming Protocol	Dimming Range	IP Rating
30W	37W	0.3A@120V 0.13A@277V	>0.90	<20	15-55V	350mA-1250mA	90°C	-40°C	82%	0-10V	1 to 100%	66

WIRING:

INPUT   OUTPUT

LINE
NEUTRAL — LED
GROUND — DRIVER

NFC

GRAY (DIM-)
PURPLE (DIM+)
BLUE (LED-)
RED (LED+)
BLUE (LED-)
RED (LED+)

PHYSICAL:

Dimensions	Length	Width	Height	Mounting
AC-30CD1.25APUP	12.4"	1.3"	1.08"	11.8"

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
- 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)

c**UL**us
E328847
Class 2

The LED Driver Type TL Program is intended to assist you in gaining greater market access for your LED drivers. This service is also intended to assist end-product LED Luminaire manufacturers improve their speed-to-market by making it easy to source a compliant LED Driver.

INSTALLATION:

- IP 66 Harsh Weatherproof
- 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.

IP66 HARSH

RoHS COMPLIANT
LEAD-FREE

AC-30CD1.25APUP

Performance Characteristics

Use with <u>NFC-V Reader</u> App Available Free at Google App Store

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 untile it syncs up
Basic format

Write	To Check: Read
Insert the appropriate code from chart above	Read
Write	Shows you the Block - 00 00 00 00
Successfully written will appear	This is where the code you input appears

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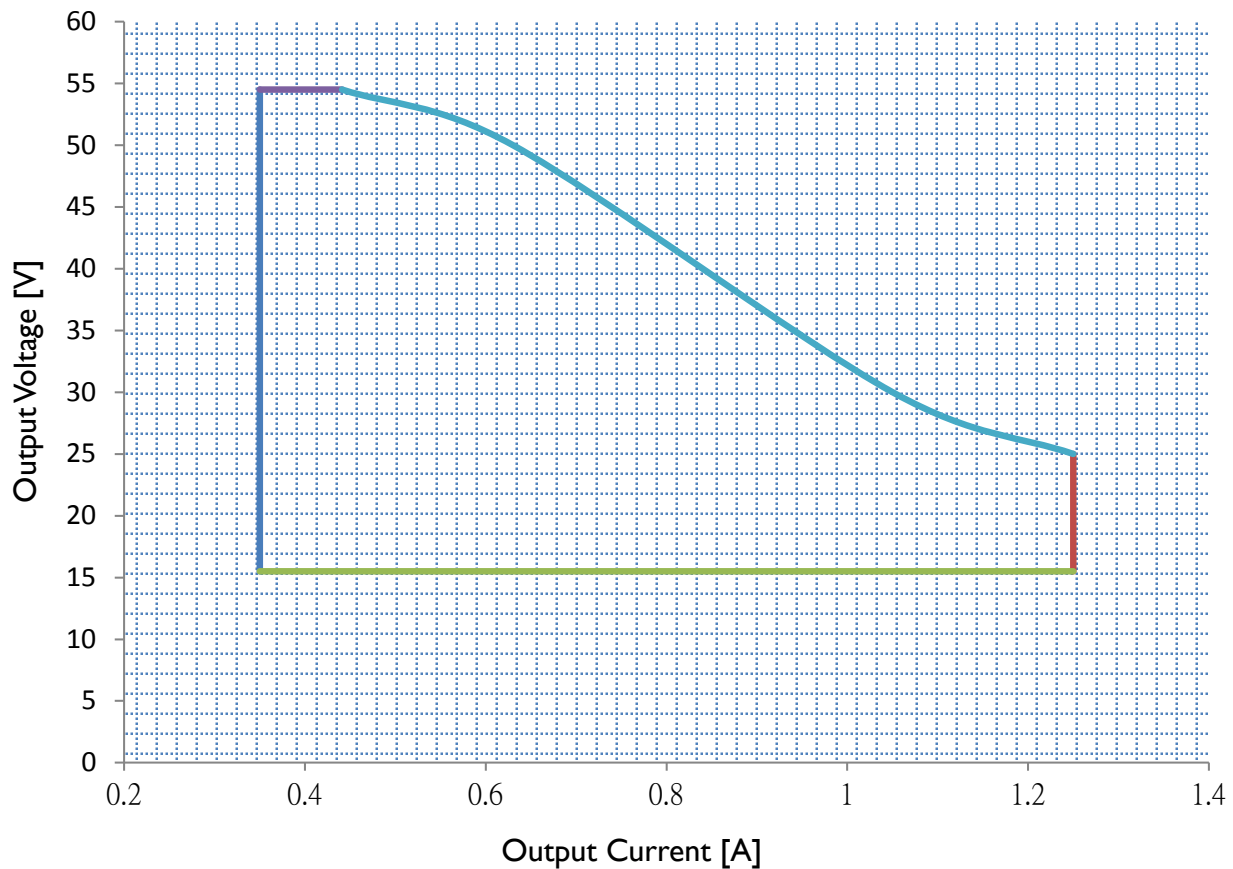
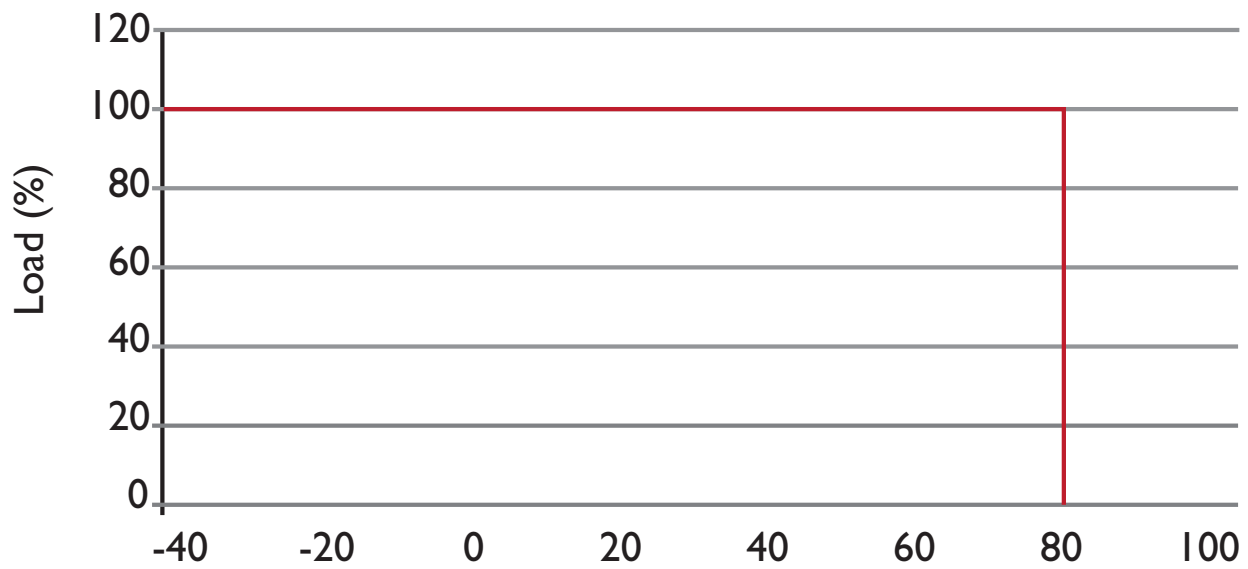**CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM http://www.aceleds.com/products-programmable.php**

Performance Characteristics

Life Time v.s. Case Temperature Curve

Life Time (kHours) vs Case Temperature Curve (°C)
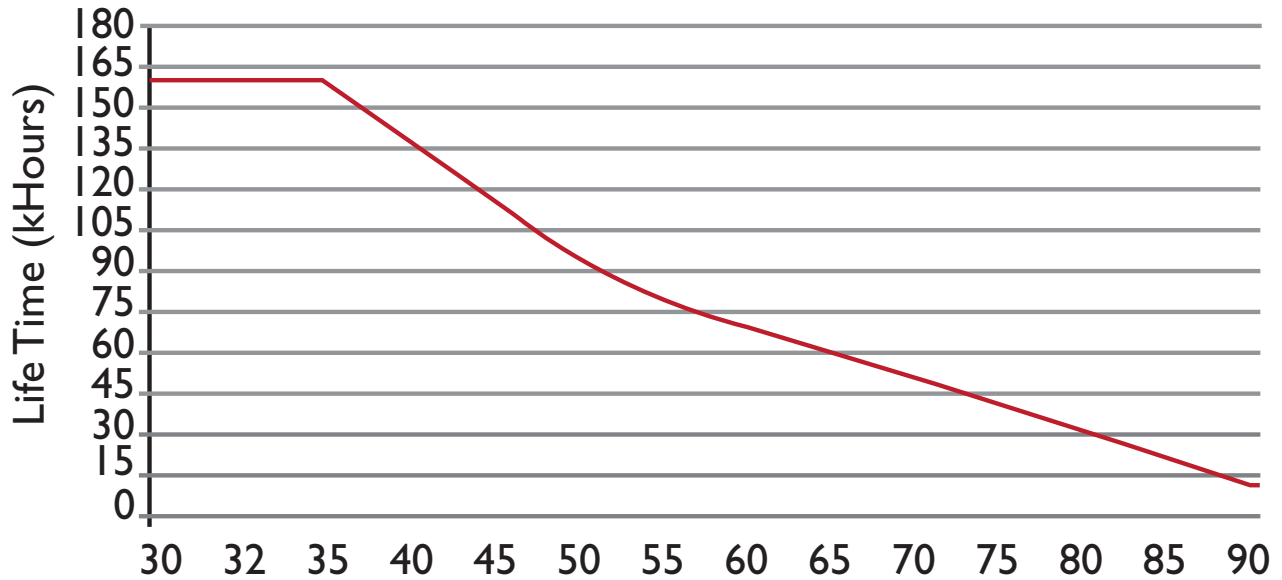
Derating Curve   120Vac & 277Vac

Load (%) vs Outside Driver Ambient Temperature (°C)

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Performance Characteristics
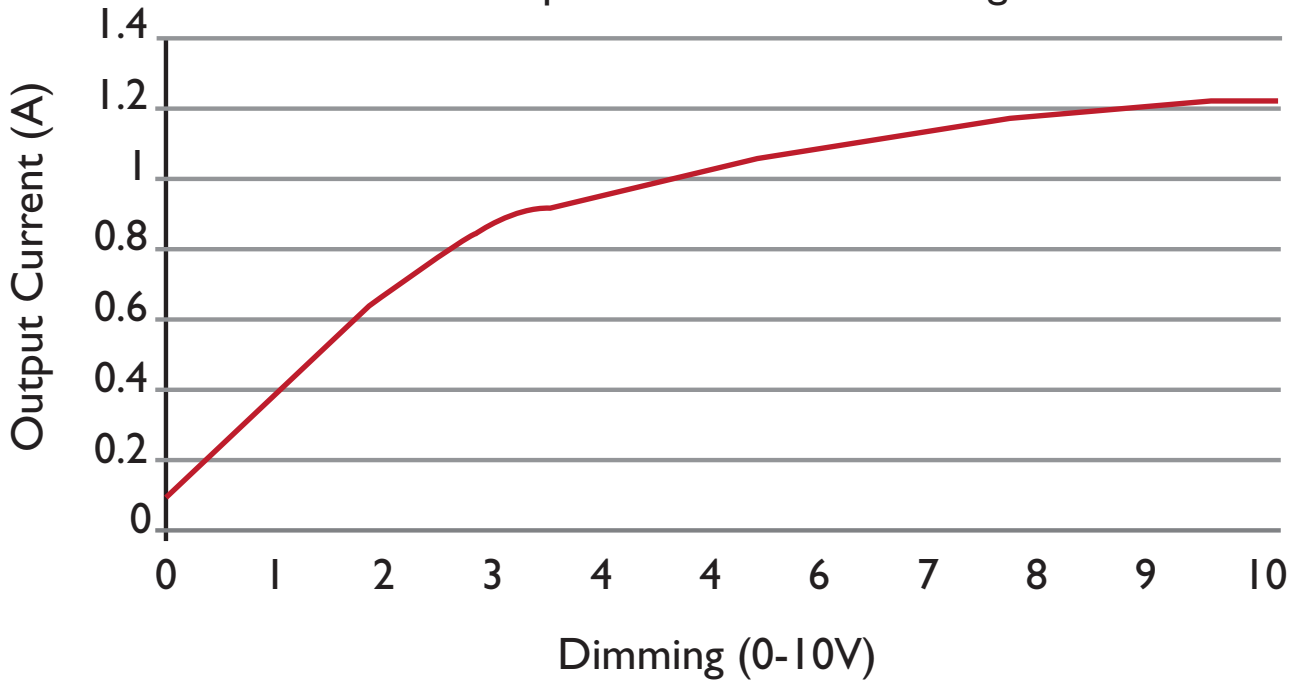
Efficiency v.s. Load
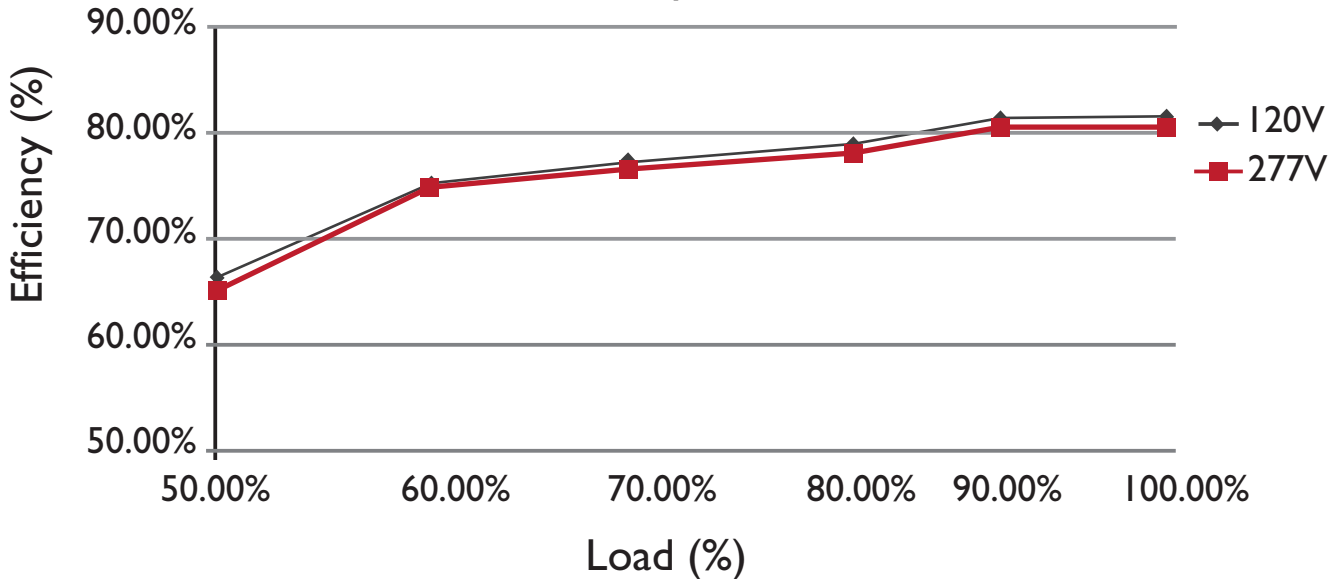
Power Factor v.s. Load
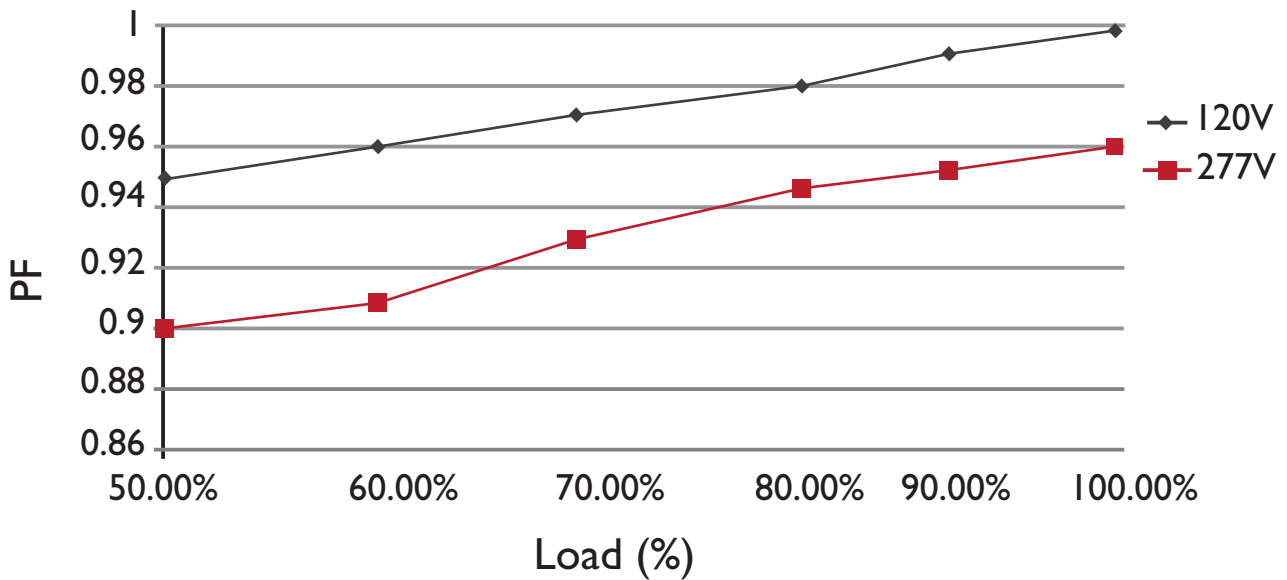
Performance Characteristics

Output Current v.s. Dimming

Output Current v.s. Resistance