

Switch-Hitter Constant Current LED Driver

Model Number AC-40CDI.05UVTS

✓ MULTI-CURRENT SWITCHING & DIMMING

ELECTRICAL SPECIFICATIONS: CWUS

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

I-100% Dimming

Switch-Hitte

AC-40CD1.05UVTS

LED Driver

6.5"

2.9"

1.18"

0 00												
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
40VV	45VV @ 120V 44VV @ 277V	0.38A @ 120V 0.16A @ 277V	>0.95	<20%	22-38V	1050mA±5%	90° C	-40° C	64	88%	0 to 10V	l to 100%
26W	30VV @ 120V 29VV @ 277V	0.25A @ 120V 0.10A @ 277V	>0.95	<20%	22-38V	700mA±5%	90° C	-40° C	64	87%	0 to 10V	l to 100%
19W	22VV @ 120V 21VV @ 277V	0.18A @ 120V 0.08A @ 277V	>0.95	<20%	22-38V	500mA±5%	90° C	-40° C	64	87%	0 to 10V	l to 100%
	WIDING											

R_oHS

COMPLIANT

PHYSICAL:

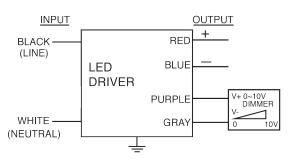
Dimensions

Length

Width

Height

WIRING:



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

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*

Mounting Length

Hot Spot

ELECTRONICS 800-375-6355

Weight

Case Qty.

c SL us

5.9"

0.83 lbs.

40 pcs.

500mA 700mA 1050r

- 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

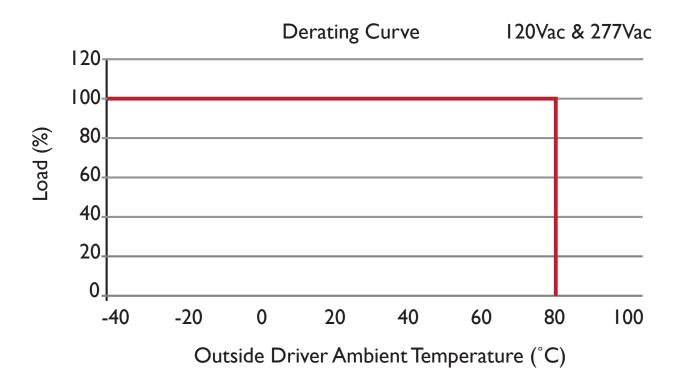
*AC Electronics/AC LED Power Designs warrants to the purchaser that each LED Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to <75°C; 3 years from date of manufacture when operated at a max case temp of up to 90°C when properly installed and under normal conditions of use. See <u>aceleds.com</u> for complete warranty policy.

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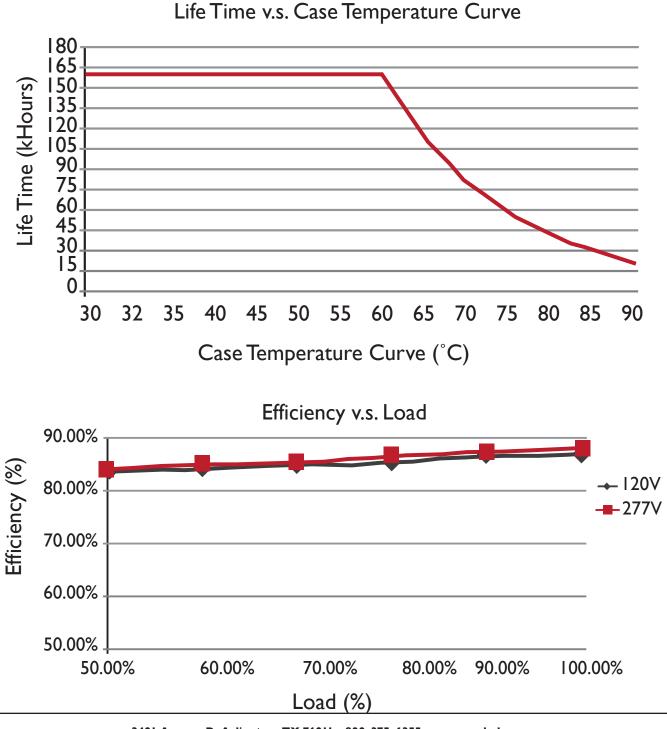
AC-40CDI.05UVTS

Performance Characteristics



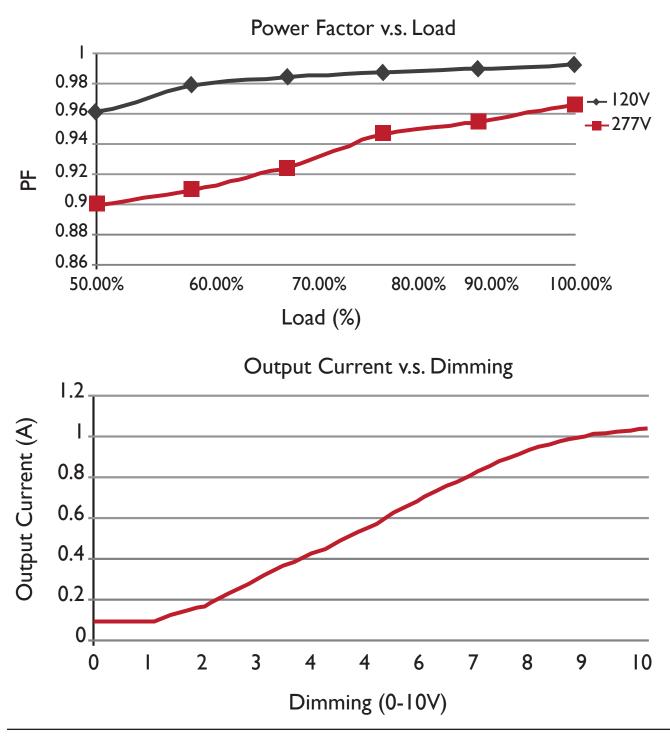
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Programmable Driver Options (App Note)

All programmable drivers accept a 16-bit hexadecimal code to program the output current (Iout) of the driver. The Iout 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-50CD1.4APNZ).

Location | 0 | 1 | 2 | 3 |

Value | 00 | 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 $\le 1.0 sec$
- $01 \Rightarrow$ Dim-To-OFF, Speed $\leq 1.0 \text{ sec}$
- $02 \implies$ Dim to 10%, Speed $\le 1.0 \text{ sec}$
- $03 \Rightarrow$ Dim to 1%, Speed ≥ 2.5 sec
- $04 \Rightarrow$ Dim-To-Off, Speed ≥ 2.5 sec
- $05 \Rightarrow$ Dim to 10%, Speed ≥ 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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