ACI end EPA POLL	UTION PREV		Dir Adjusta	PROGRAM GITAL, WI BLE CURI TYPE TL	IDE-RAN RENT &			Model AC-40 AC-40 nput Vo nput Fre ide and I Sec.	nt Curr I Num 40CDI.4 0CDI.4 0CDI.4 0CDI.4 0CDI.4 1tage: 120 equency: Bottom Start tim % (Defa	ber I.4API IAPBI IAPSC 0-277V 50/60Hz Mount/I	MZ (V C	P1	
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	
10 to 40VV	47W	0.4A @ 120V, 0.18A @ 277V	>0.90	<20%	15 to 55V	400 to 1400mA	90°C	0°C	85%	0 to 10V	l to 100%	64	
Note: Gr	Note: Gray (-) dimming wire has been changed the 2020 NEC section 410.69 and NEMA.					Mod AC- AC AC	Bottom Mount Model No: AC-40CDI.4APBKV ONLY - AC-40CDI.4APMZ (I Sensor Area is on the bottom w a NFC Sensor Label Dimensions Length Width Height Mour AC-40CDI.4APBKV AC-40CDI.4APMZ 6.22" Image: Ac-40CDI.4APMZ 6.22" AC-40CDI.4APBKV 4.56" AC-40CDI.4APBKV 4.56" Image: Ac-40CDI.4APBKV 4.56"						
	Lead Lengths						-40CDI		12.8"	1.34"	1.06"	12.5"	
Black White	5.9" 5.9"	Blue Red	5.9" 5.9"	Purple Pink	7.1" 7.1"	╧╎┣		Value (°C) 00	Tc/Tref V 58		Ta/Value (°0 40	-)	
PROTE	PROTECTION		OLTAGE DRT CUIT	after	Output Current decade mode, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed								
			OVER TEMP. Shut down o/p			voltage, re-power on to recover							
	SAFETY & EMC		Operation TEMP. 0°C~50				°C						
			WORKING HUMIDITY				10%~90%						
SAFETY			STORAGE TEMP., HUMIDITY				-40'C~80'C						
ENVIRC	ENVIRONMENT		Maximum T-Case TEMP.				90°C						
		EM	I/EMS	FCC P	FCC Part 15 class A, UL8750, CSA C22.2 No. 250.13-14								

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SAFETY:

- Class 2
- 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 $\leq 65^{\circ}C$

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 <u>aceleds.com</u> for complete warranty policy.

IOUT/VOUT CURVE

AC-40CDI.4APMZ AC-40CDI.4APBKV AC-40CDI.4APSC

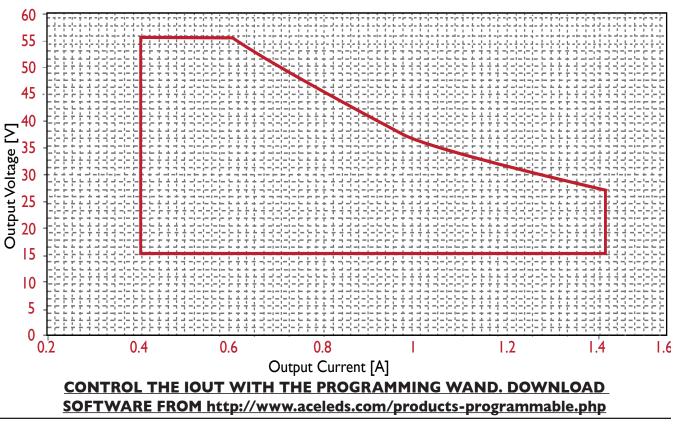
- Warranty: 5 yrs based on max case temp of 75°C; 3 yrs based on max case temp of 90°C*
- Input/Output Isolation
- FCC Title 47 CFR Part 15
- Surge Protection (2 KV)
- Surge Protection (IKv)*
- Gray (-) dimming wire has been changed to pink per the 2020 NEC section 410.69 and NEMA.

GENERAL INFORMATION

WARRANTY						
Inrush Current	35A					
MTBF	10,000 Hrs Туре					
Protection	Overload/Over temperature/Short circuit protection					

APPROVALS

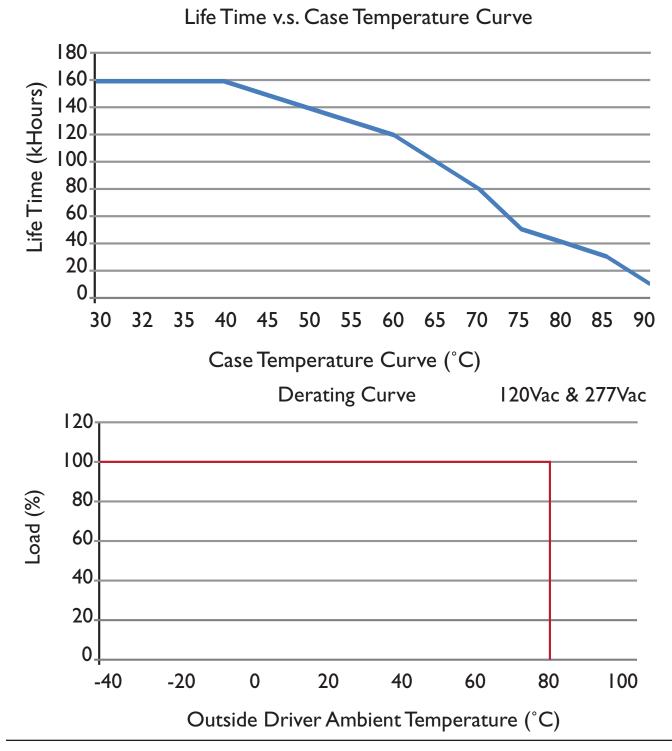
UL Class2, FCC Class A, RoHs, Type HL



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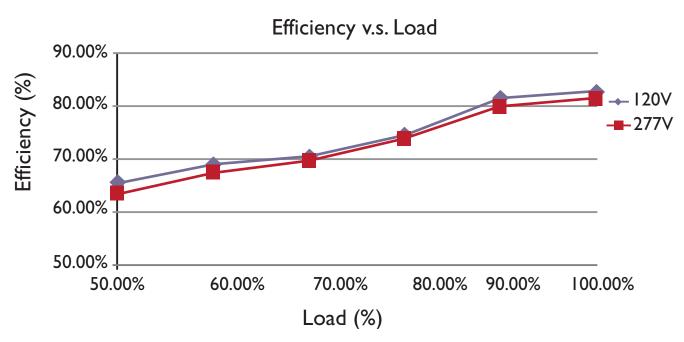
Performance Characteristics

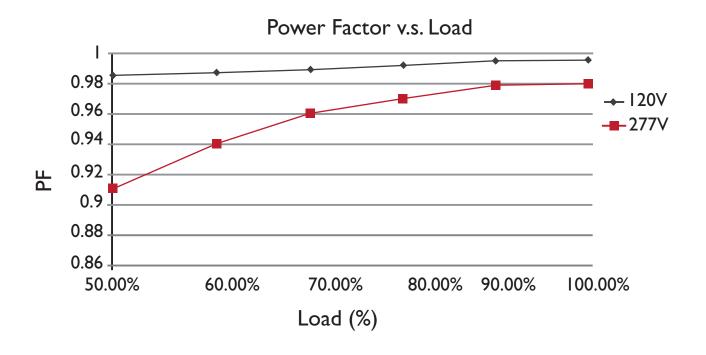


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Performance Characteristics



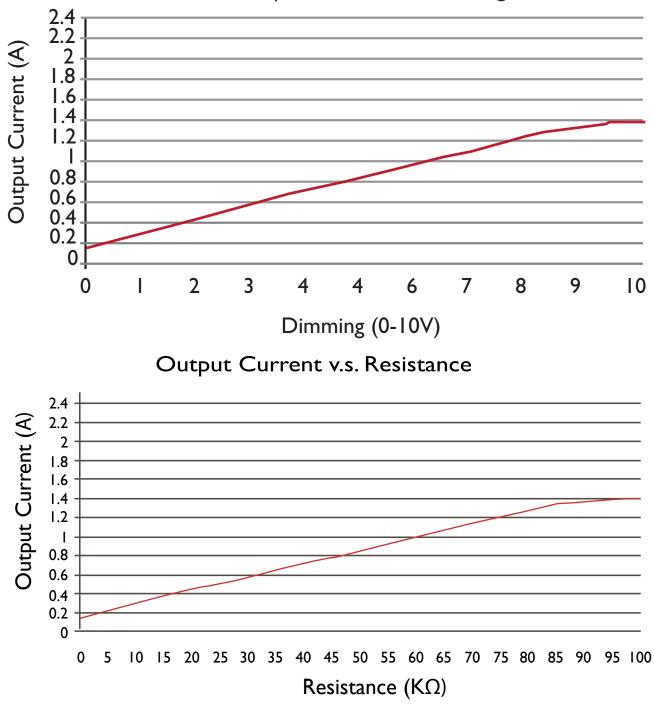


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Performance Characteristics

Output Current v.s. Dimming



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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 2 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 => Dim to 10%, Speed $\le 1.0 sec$
- $03 \Rightarrow$ Dim to 1%, Speed ≥ 2.5 sec
- $04 \Rightarrow$ Dim-To-Off, Speed ≥ 2.5 sec
- $05 => \text{Dim to } 10\%, \text{Speed} \ge 2.5 \text{ sec}$

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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