

FEATURES

- High Range Input Voltage (249-528Vac)
- High Efficiency (Up to 87%)
- Active Power Factor Correction (0.95 Typ.)
- Lighting Protection
- Optional 0-10V Dimming
- RoHS Compliant

75W Constant Current Dimmable LED Driver

LEDHCx075 Series



SPECIFICATIONS

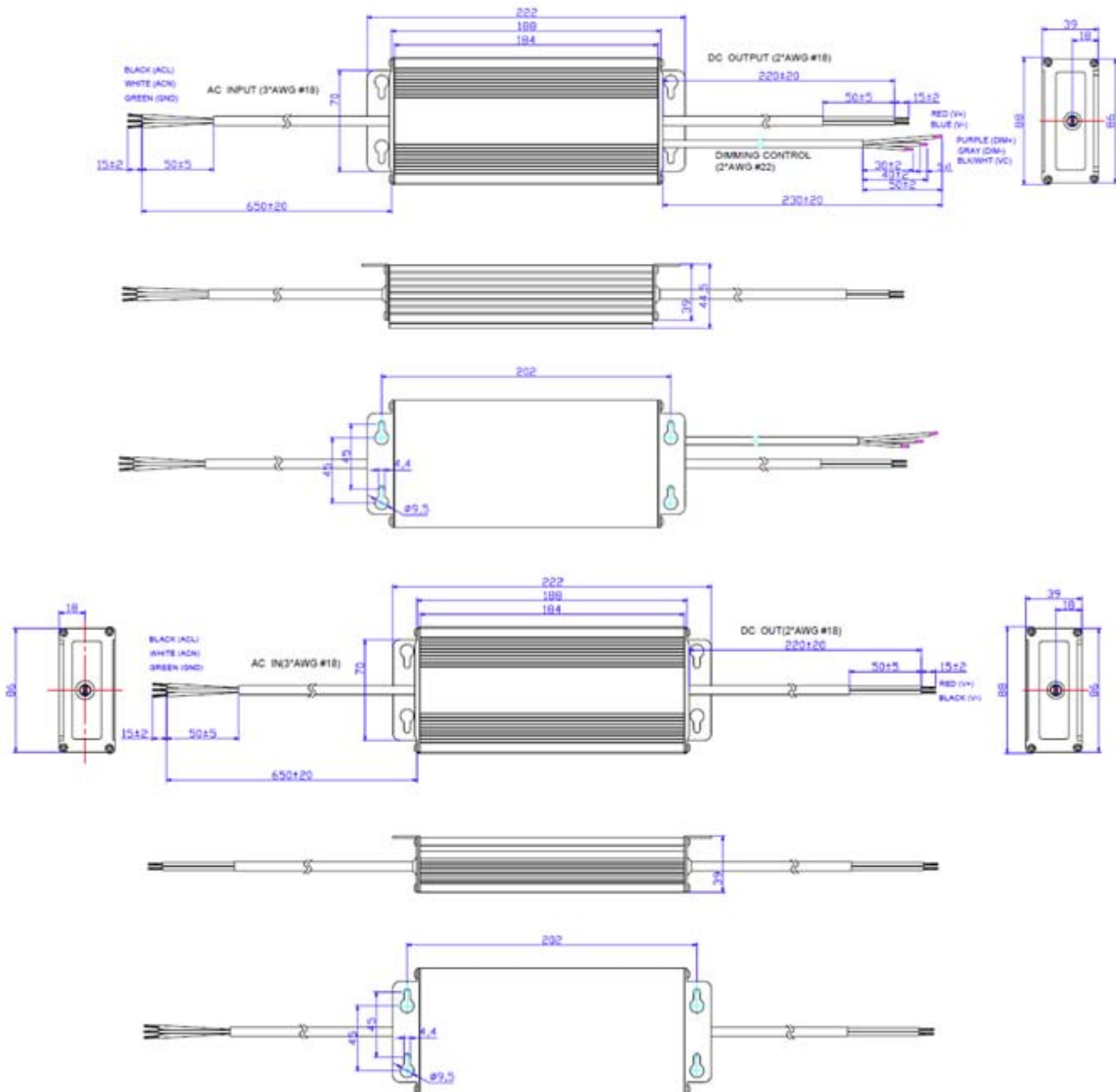
Model # (3)	Output Current (1)	Output Voltage Range	PF		Output Current Range	Efficiency (2)
			277VAC	480VAC		
LEDHCx075S035ST	350mA	107~214Vdc	0.95	0.90	332~368mA	87.0%
LEDHCx075S070ST	700mA	53~107Vdc	0.95	0.90	665~735mA	86.0%
LEDHCx075S105ST	1050mA	36~72Vdc	0.95	0.90	1000~1100mA	87.0%
LEDHCx075S140ST (4)	1400mA	26~53Vdc	0.95	0.90	1330~1470mA	87.0%
LEDHCx075S210ST (4)	2100mA	18~36Vdc	0.95	0.90	1995~2205mA	86.0%
LEDHCx075S315 (4,5,6)	3150mA	12~24Vdc	0.95	0.90	4750~5250mA	85.0%

Output	Rated Power	75W	
	Ripple & Noise	20%Io Full Load	
	Line Regulation	±1%	
	Load Regulation	±3%	
	Start-Up Time	3.0s Measured at full load, 277Vac input / 3.0s Measured at full load, 480Vac input	
	Output Overshoot / Undershoot	10% When powered ON or OFF	
Input	Voltage Range	249~528Vac	
	Frequency Range	47Hz~63Hz	
	Inrush Current	135A at 480Vac input 25°C Cold start, Duration= 1.2ms, 10%Ipk-10%Ipk	
	AC Current	0.21A Measured at full load and 480Vac input / 0.34A Measured at full load and 277Vac input	
	Leakage	0.7mA at 480Vac 60Hz input	
Protecti ons	Short Circuit	Latch mode. The power supply shall return to normal operation only after input is recycled.	
	Over Temperature	110°C (Typ.) Maximum internal temperature, power supply will restart after cooling.	
Environm ental	Temperature Range	Operational	-35°C ~+ 70°C
		Storage	-40°C~+85°C
	Humidity	Operational	10%~100%RH
		Storage	5%~100%RH
Safety & EMC	Safety Standards	UL8750, UL1310, UL1012, CAN/CSA-C22.2 No.223-M91, CSA C22.2 No.107.1-01	
	No Load Power Dissipation	≤1.0W @ 230 Vac input	
	Withstand Voltage	I/P –O/P: 3KVAC (4242 DC) I/P-F/G: 1.5KVAC (2121 DC) O/P-FG: 0.5KVAC (707 DC), 1 minute	
	Isolation Resistance	I/P – O/P, I/P-FG, O/P – FG: 100M Ohms / 500VDC	
	EMI (Cond & Rad)	EN55015 with 6db margin	
	Harmonic Current	EN61000-3-2, EN61000-3-3	
	EMS Immunity	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547	
Others	MTBF	250,000 hours Measured at 480Vac input, 80% Load and 25°C ambient temperature (MIL-HDBK-217F)	
	Life Time	61,900 hours Measured at 480Vac input, 80% load: Case temperature = 60°C @ Tc point. See life time vs. Tc curve for details	
	Dimensions	(L*W*H) 7.40*3.46*1.54 inches 188*88*38 mm	
	Weight	1000 g	

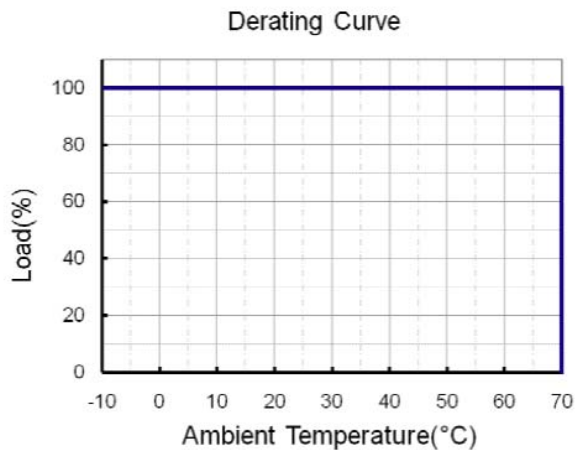


1. The output current is adjustable at factory from 50% to 100%
2. Measured at 25°C, full load and 480Vac input
3. A suffix-xxx may be added to denote variations or modifications to the current models
4. UL Class 2 Output (USR) for dry and damp location
5. CUL Class 2 Output (CNR) for dry and damp location
6. CUL Class 2 Output (CNR) for wet location

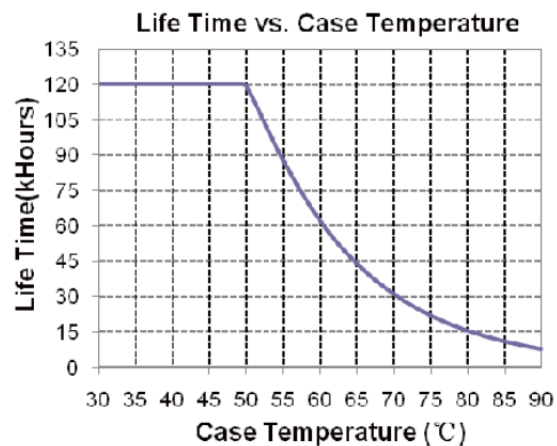
Mechanical Specification



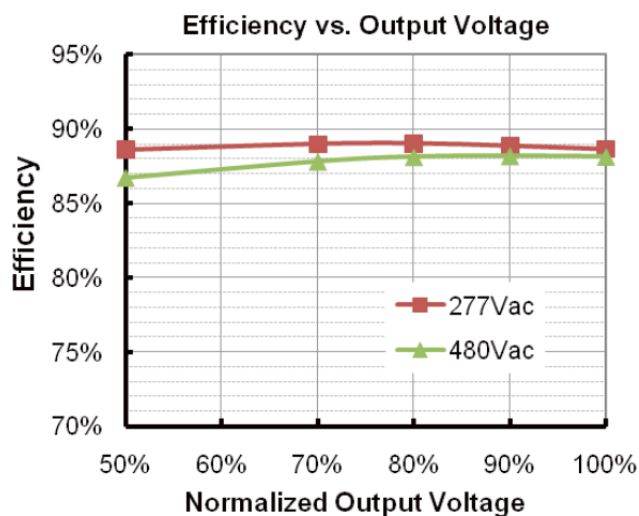
Derating Curves



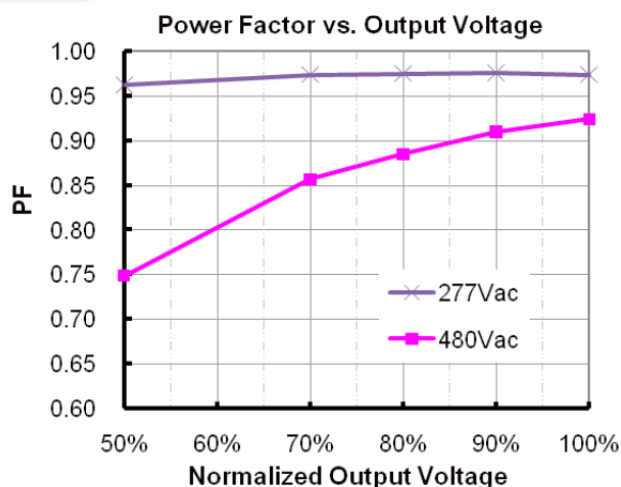
Life Time vs. Case Temperature



Efficiency vs. Load (350mA model)



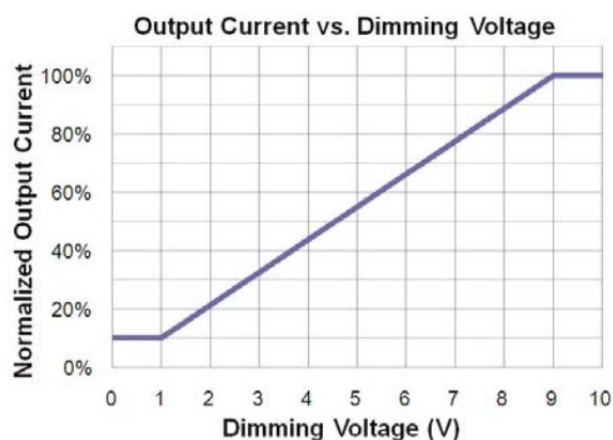
Power Factor Characteristics



Dimming Control

Parameter	Min.	Typ.	Max.	Notes
12V output voltage (Vaux)	10.8V	12V	13.2V	
Vaux source current	10 mA	15mA	20 mA	
Absolute maximum voltage On the 0~10 input pin	-2 V	-	15V	
Source current on 0~10V input pin	150 uA	200 uA	250 uA	

The dimmer control is operated from an input signal of 1-10 Vdc. Recommended implementations are provided below.



Implementation

Notes:

1. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like resistors and zener.
2. The dimming signal is allowed to be less than 1V, when it is between 0 and 1V, the output level is 10%.
3. Do NOT connect the Gray Wire (Dim-) to Blue Wire (V-) together.
4. The dimming section is not isolated with output.
5. If 0-10V dimming is not used, Dim + can be either open or connected to Vaux.

PART NUMBER SCHEME

LEDHCx075SxxxST

LED= LED Driver

H= High Input Voltage 249~528Vac

C= Constant Current

X= - Non Dimming D= Dimming

T= Class I, 3 Wire Input

S= Metal Case

xxx= Rated Current

S= Single Output

075= Output Power (Watts)

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AUTEC IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMMISIONS

