

FEATURES

75W Constant Current LED Driver with 0-10 Dimming

LWC075 Series

- High Efficiency & High Power Factor – Meets Energy Star & DLC
- 5 Year Warranty
- Over Voltage, Short Circuit & Optional Over Temperature Protection
- Waterproof (IP67)
- Certified to UL8750, EN61347 & CE
- Wide Range Input 90-305 VAC
- Class 2 Output (Some Models)
- 0-10V & PWM (Output) Dimming
- RoHS Compliant



SPECIFICATIONS

See Part Number Builder to create your customized part	Model # (2)	Output Current (mA)	Voltage Range	Max. Output Power	Efficiency (Typ.)		PF (5) 277V
					110V	277V	
	LWC075-035S1	350	139V~214V	75 W	89%	91%	0.9
	LWC075-045S1	450	109V~167V	75 W	89%	91%	0.9
	LWC075-054S1	540	90V~139V	75 W	89%	91%	0.9
	LWC075-070S1	700	70V~107V	75 W	89%	91%	0.9
	LWC075-105S1	1050	46V~71V	75 W	89%	91%	0.9
	LWC075-140S3 (4)	1400	35V~54V	75 W	89%	91%	0.9
	LWC075-210S2 (3)	2100	23V~36V	75 W	88.5%	90.5%	0.9
	LWC075-240S2 (3)	2400	20V~31V	75 W	88.5%	90.5%	0.9
	LWC075-280S2 (3)	2800	18V~27V	75 W	88.5%	90.5%	0.9
	LWC075-375S2(3)	3750	13V~20V	75 W	88.5%	90.5%	0.9
	LWC075-500S2 (3)	5000	10V~15V	75 W	88.5%	90.5%	0.9

Output	Load Regulation	±5%
	Line Regulation	±2%
	Tolerance	±5% for Voltage and current
	Turn-on Delay	2 sec. (Typ.) Measured at 110Vac input. / 1 sec. (Typ.) Measured at 220Vac input.
	Ripple & Noise (pk-pk)	3% Vo Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor
Input	Rated Voltage	100~277 Vac
	Frequency Range	50Hz ~60Hz
	Inrush Current	75A at 230Vac input, 25°C Cold Start
	AC Current (Typ.)	1.0 A measured at full load and 100 Vac input / 0.5 measured at full load and 220 Vac input
	THD	< 20% measured at 100-277 Vac, from 75% to 100% Load
	Leakage Current	0.25 mA Measured at 277Vac 60Hz Input
Protections	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Over Temperature	110°C Maximum temperature of components inside the case (Typ). Auto recovers after cooling (Optional)
	Over Voltage	Latch mode, recycle AC to restart

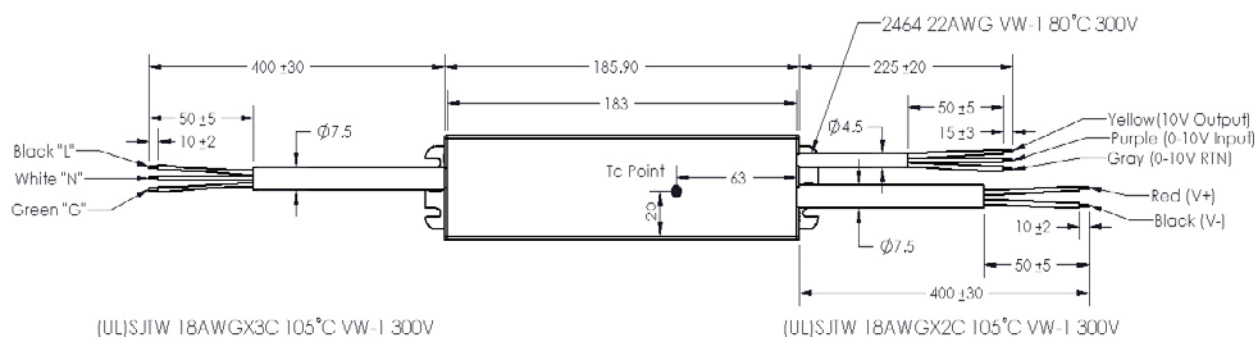


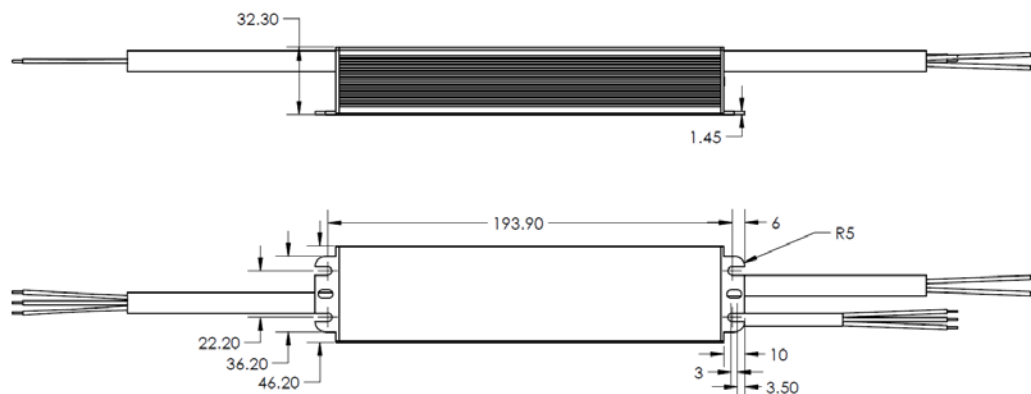
Environmental	Ambient Temperature Range	Operational	- 40°C ~+ 70°C
		Storage	- 40 ~ +85°C
	Case Temperature	Max. +90°C (See Mechanical Drawing for exact location)	
	Humidity	Operational	10% ~ 100% RH
Safety & EMC		Storage	5% ~100% R.H
	Safety Standards	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 No. 223, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0-13-12, EN61347.1, EN61347-2-13 and EN60529	
	EMI Conduction & Radiation	Meet EN55015 FCC Part 15 Class B	
	EMS Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61547	
Others	Surge	EN61000-4-2 4kV contact discharge (6kV optional available)	
	MTBF	252,000 hours For 1400 mA output model, measured at 110V input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)	
	Lifetime	87,000 hours For 1400 mA output model, measured at 220V input, 80%Load and 45°C ambient temperature	
	Dimensions	(L*W*H) 176.9*46.2*32.3mm	
	Weight	625g	

Notes:

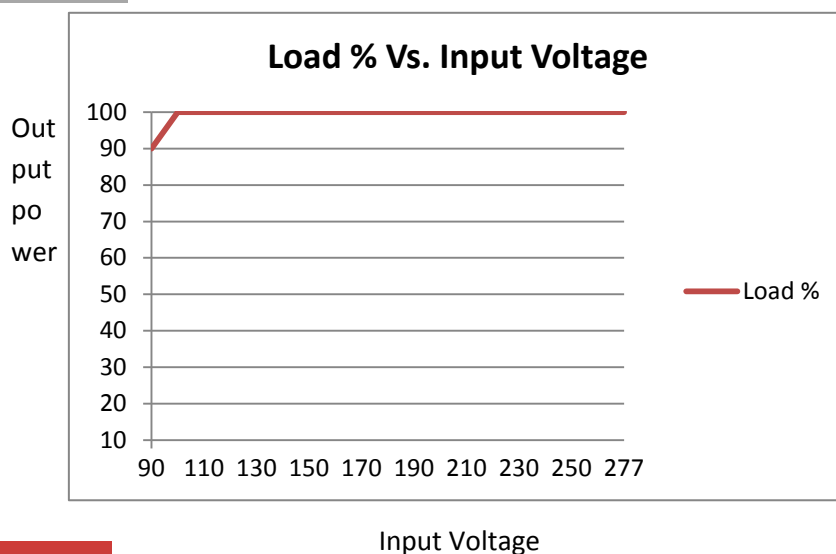
1. If not specified all measurement done at full load, 25C ambient and 230Vac input.
2. A suffix-xxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.
3. Class 2 Output (US & Canada)
4. Class 2 output (US)
5. Minimum measured at 70% load

Mechanical Specification

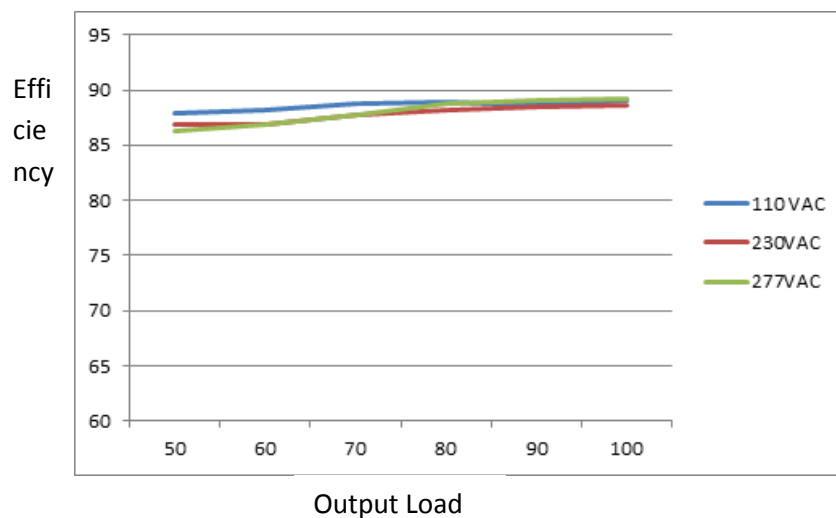




Derating Curve



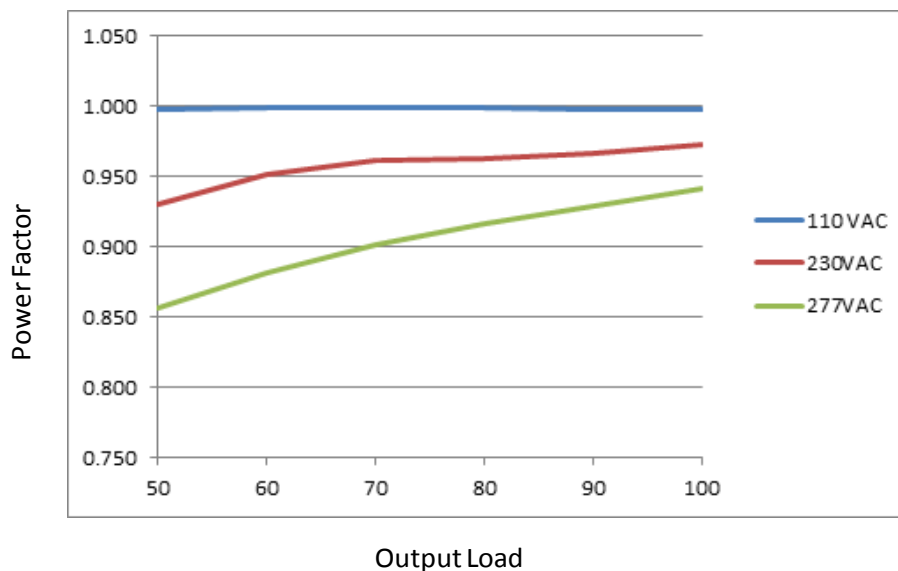
Efficiency vs. Load



1400mA model

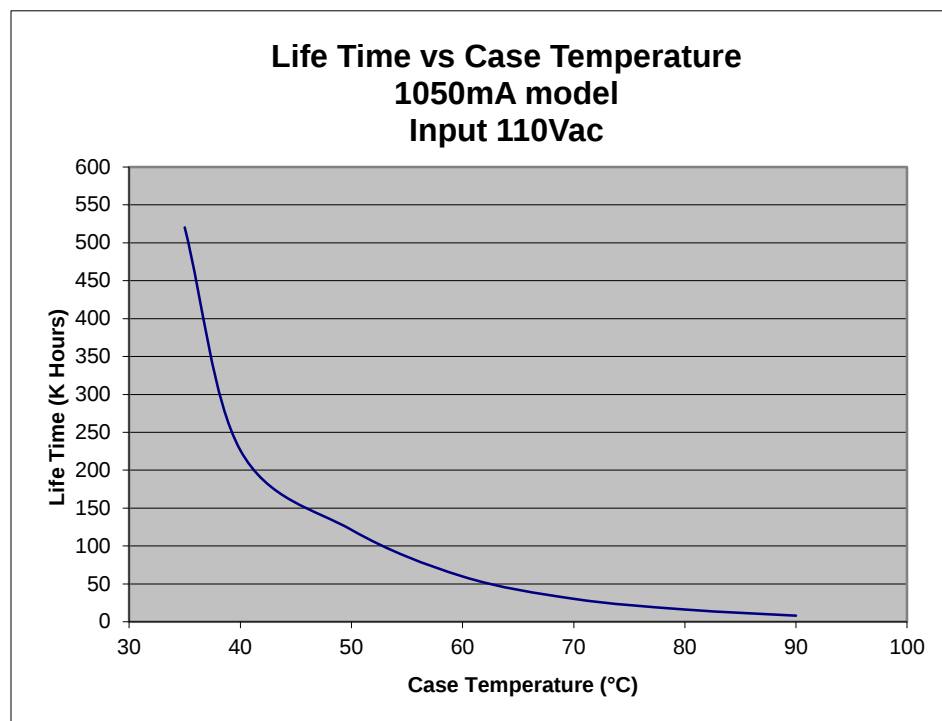


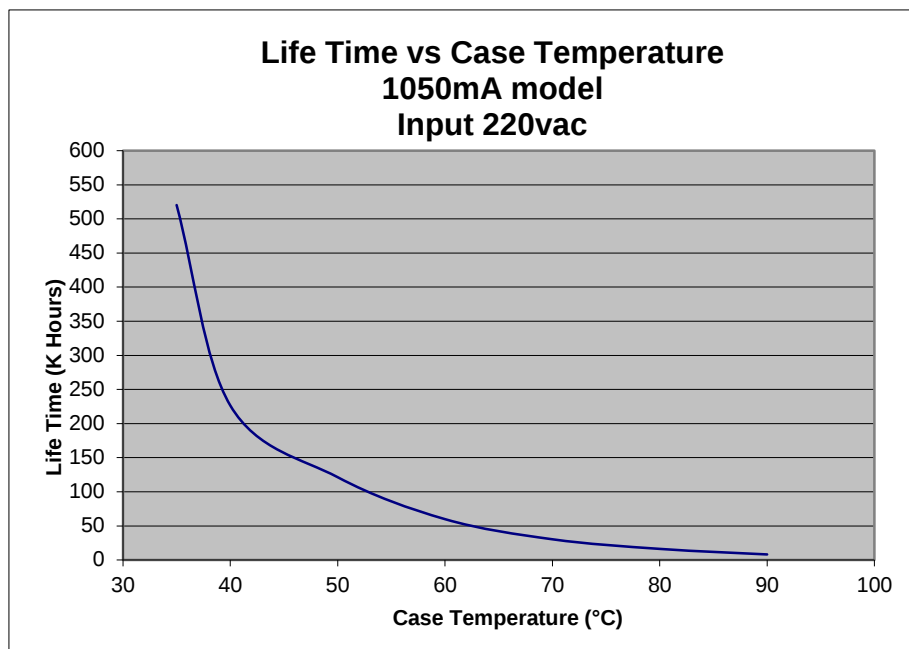
Power Factor Vs. Load



1400mA model

Life Time Vs. Case Temperature





PART NUMBER BUILDER

LWC075-045SX4XT-XXX

L=AC/DC LED Driver

W=Wide Input Voltage 90-305V

C=Constant Current

075=Output Power (Watts)

045mA=Output Current

XXX= Non-Standard Part Indicator

T= Thermal Switch or, blank for no thermal protection

Dimming Options:

0= Non dimming

2=2 wire dimming 0-10V

3=3 wire dimming 0-10V (10V Aux)

Surge Protection:

4=4kv (standard)

6=6kv (optional)

Output class:

1=Non Class 2

2=Class 2 US & Canada

3=Class 2 US Only

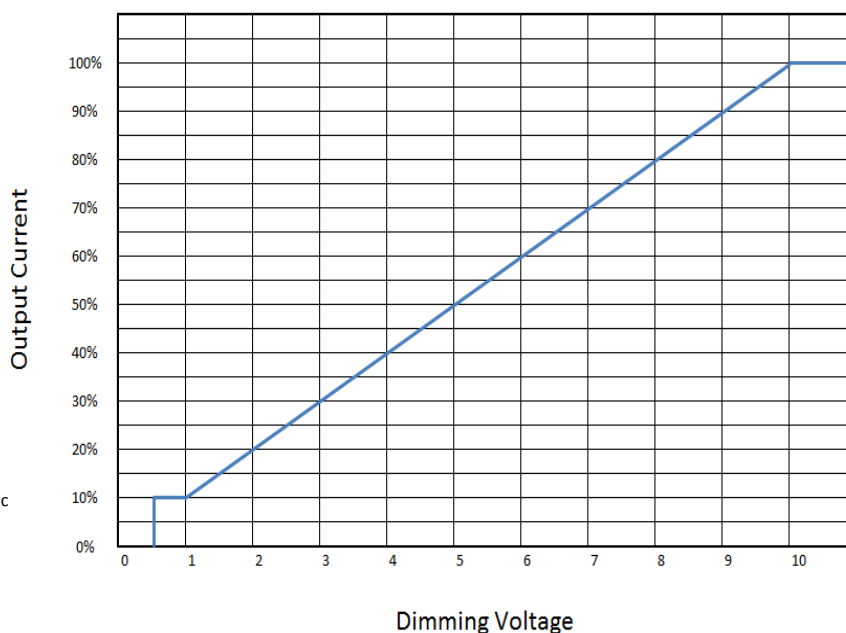
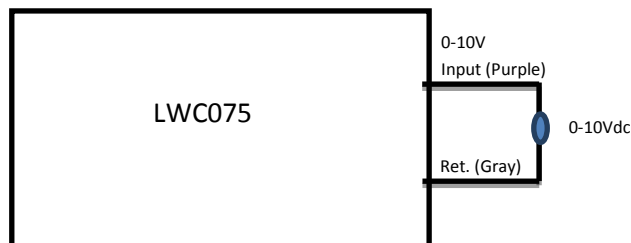
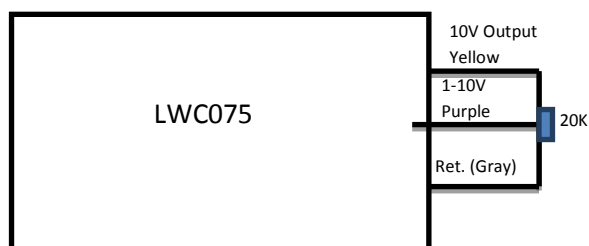
S=Single output



Dimming Control

Parameter	Min.	Typ.	Max.	Notes
10V output voltage	9.8V	10V	10.2V	
10V output source current	0mA		10mA	
Voltage on the 0~10V input pin	500mV		12V	3
Source current on 0~10V input pin	0mA		1mA	

- 1.The Dimmer control may be operated from either a potentiometer, an input signal of 0 – 10 Vdc or a PWM signal with the duty cycle determining the dimming level.
- 2.Two recommended implementations are provided below.
- 3.Providing less than 500mV on the reference voltage may prevent the unit from starting or shut off if operating.



Notes:

1. If the dimming function is not used, please open the yellow, purple and grey wires.
2. Io is actually output current and Ir is rated current without dimming control.
3. Do not connect the dimming return to the output; otherwise the driver will not work normally.

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

