

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

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

See Part Number Builder to create your customized part

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 1 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
Protections	Leakage Current	0.25 mA Measured at 277Vac 60Hz Input
	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

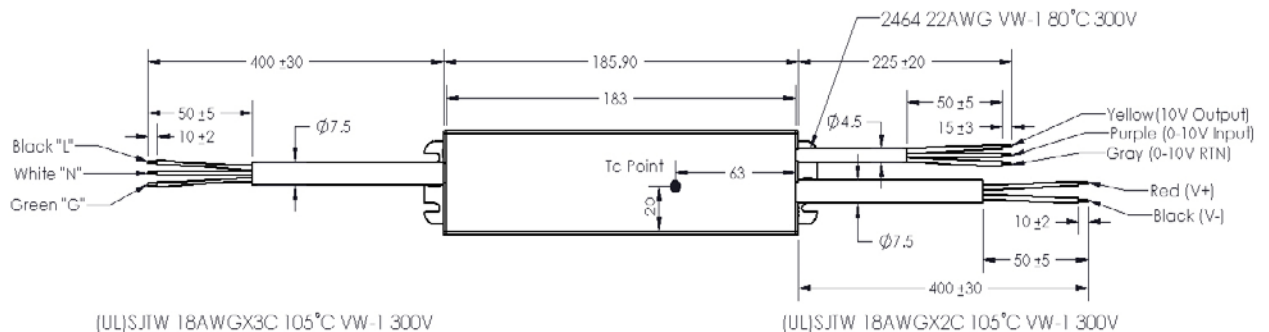


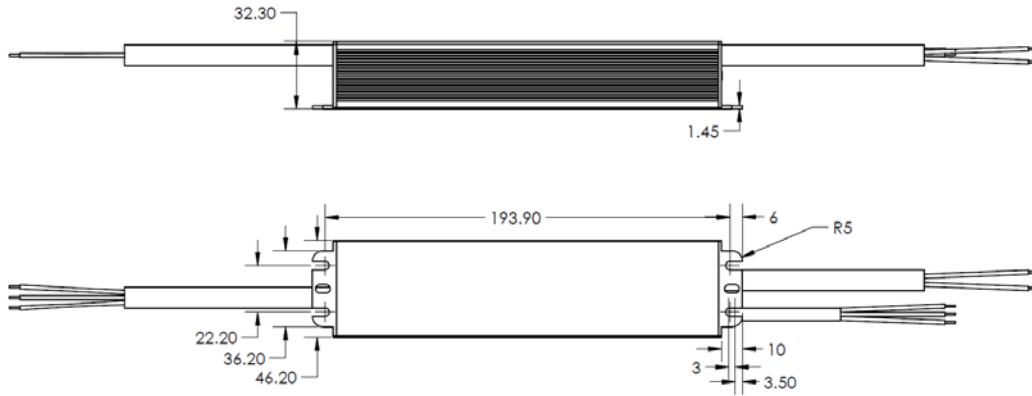
Environmental	Ambient Temperature Range	Operational	- 40°C ~+ 70°C
		Storage	- 40 ~ +85°C
	Case Temperature	Max. +90°C (See Mechanical Drawing for exact location)	
	Humidity	Operational	10% ~ 100% RH
Storage		5% ~100% R.H	
Safety & EMC	Safety Standards	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 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	
	Surge	EN61000-4-2 4kV contact discharge (6kV optional available)	
Others	MTBF	252,000 hours For 1400 mA output model, measured at 110V input, 80%Load and 25°C ambient temperature (MIL-HDBK-217)	
	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:

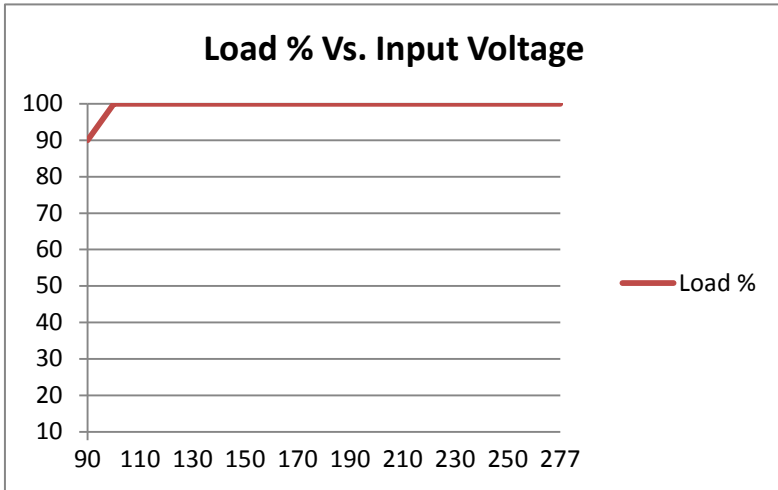
1. If not specified all measurement done at full load, 25C ambient and 230Vac input.
2. A suffix-xxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.
3. Class 2 Output (US & Canada)
4. Class 2 output (US)
5. Minimum measured at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

Mechanical Specification

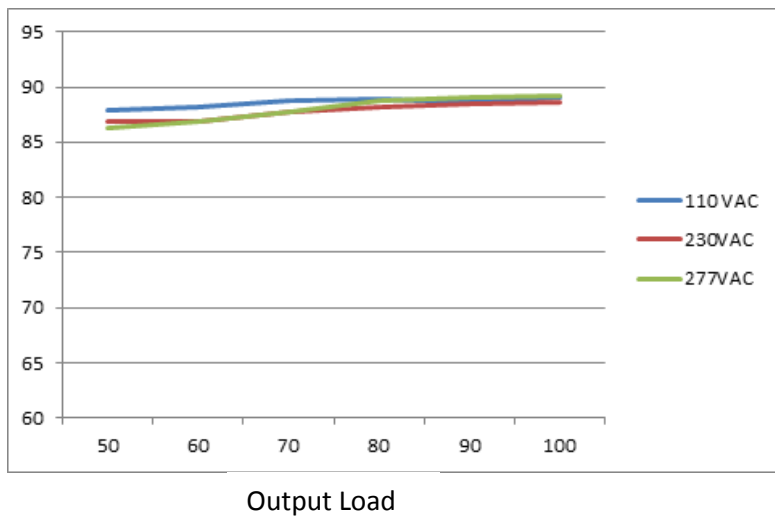




Derating Curve



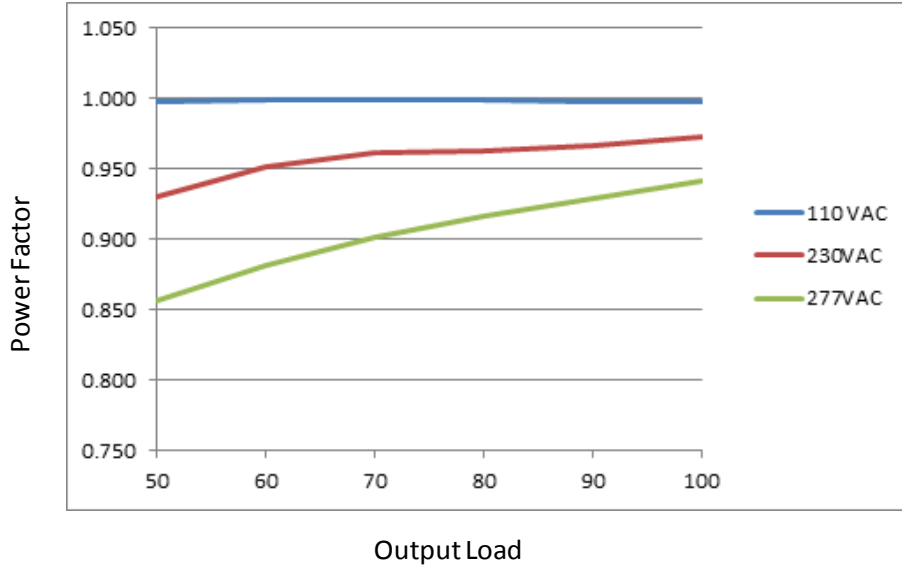
Efficiency vs. Load



1400mA model

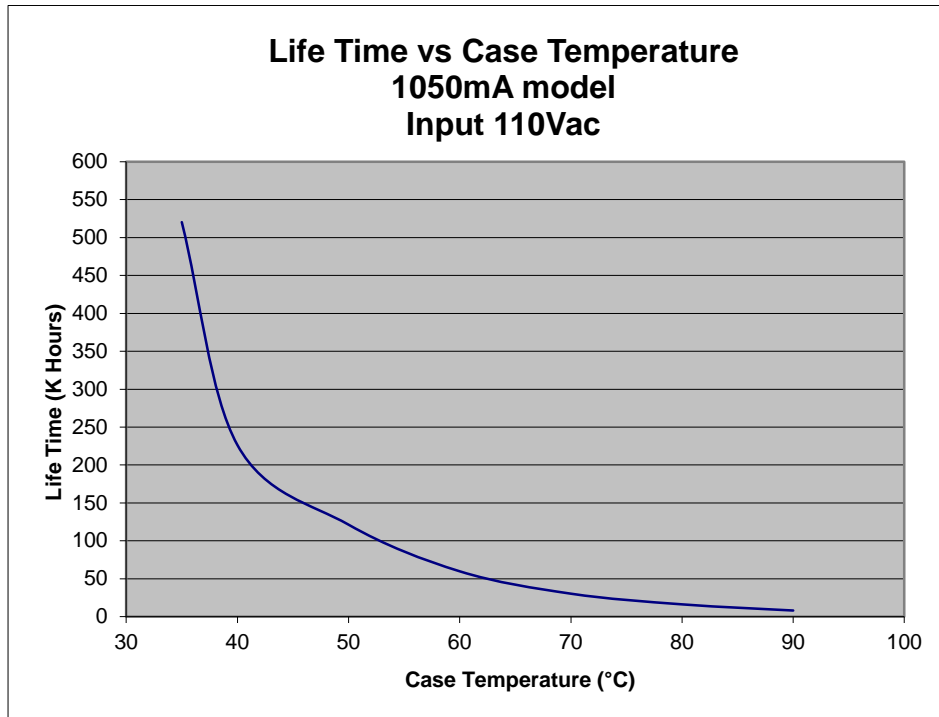


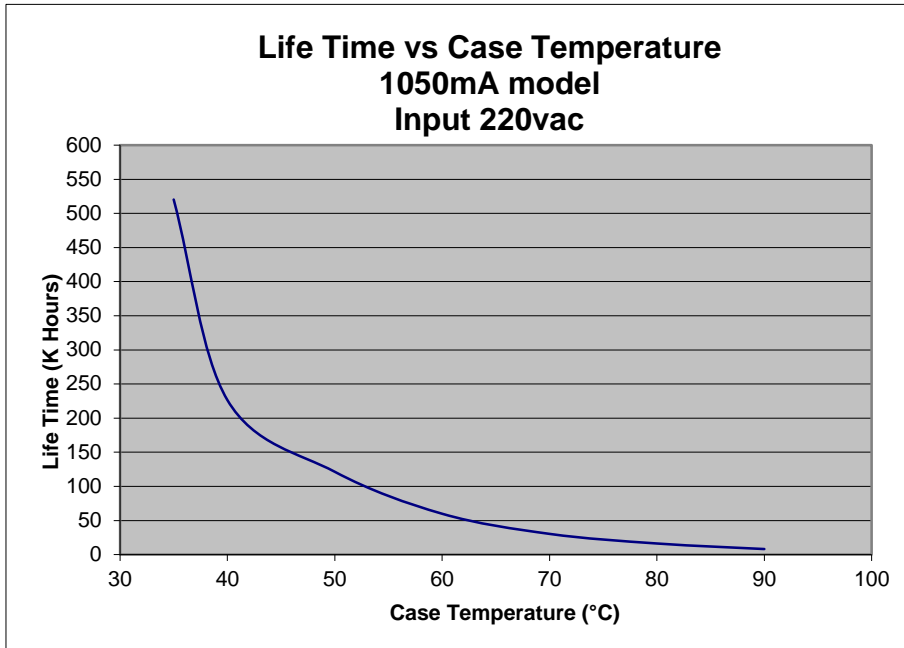
Power Factor Vs. Load



1400mA model

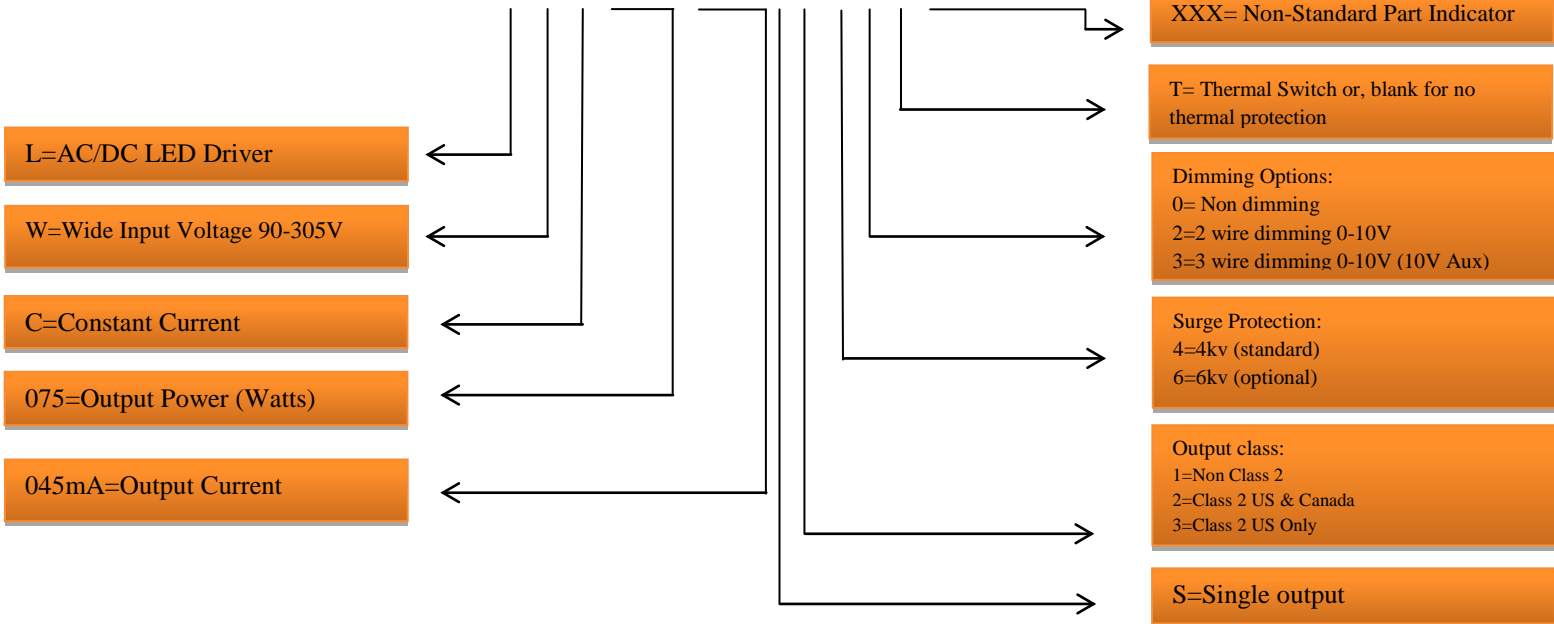
Life Time Vs. Case Temperature





PART NUMBER BUILDER

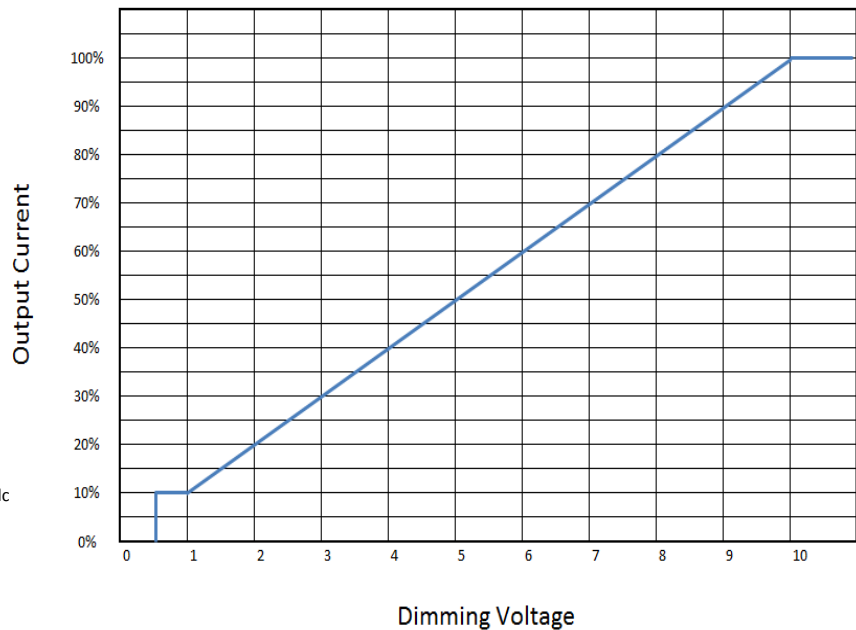
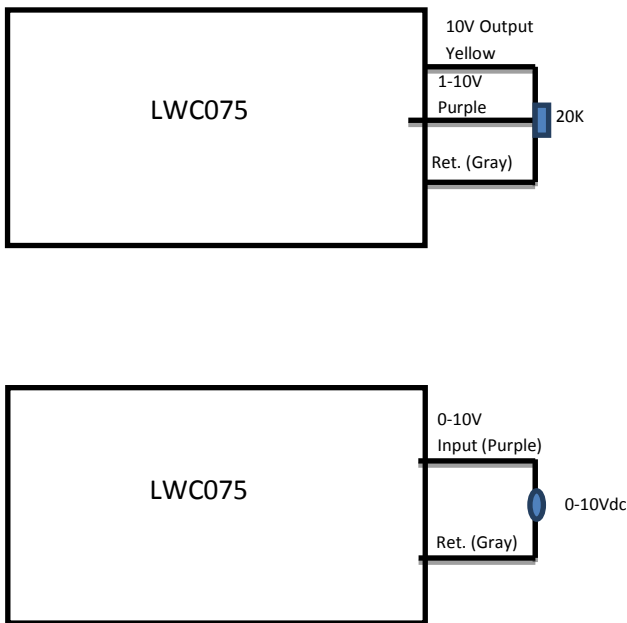
LWC075-045SX4XT-XXX



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. I_o is actually output current and I_r 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 AUTECH IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMMISIONS

