FEATURES

LW096-P Series **96W Constant Current PLC Dimming LED Driver**

- Ultra High Efficiency (Up to 92%) & High Power Factor (Up to 0.99)
- 90-305VAC Input
- Fully Addressable & Networkable PLC Base LED Driver
- Class 2 Output (UL 1310) Most Models
- Compact Size with Plastic and Metal Case Options
- Overload, Short Circuit & Thermal Protection
- Waterproof (/IP67/IP65) Rated for Damp & Wet Locations
- UL8750, UL879 & EN61347 In Process, CE Compliant
- RoHS Compliant

SPECIFICATION

See Model Number Builder Below	Model (1)	Voltage (2)	Current (2)	Output Watts	Efficiency		Power Factor	
					110 Vac	277 Vac	115 Vac	277 Vac
	LWx096-012S1-0CP (10)	8-12	8A	96	90	91	.99	.91
	LWx096-012S2-0CP (11)	8-12	5A	60	89	88	.99	.91
	LWx096-024S2-0CP (11)	16-24	4A	96	90	91	.99	.92
	LWx096-036S2-0CP (11)	25-36	2.66A	96	90	91	.98	.91
	LWx096-042S3-0CP (12)	29-42	2.28A	96	90	91	.98	.91
	LWx096-048S3-0CP (12)	33-48	2A	96	91	93	.98	.91
	LWx096-054S3-0CP (12)	36-54	1.77A	96	91	93	.98	.91

Output	Turn-on Delay		0.4 sec. Measured at 110Vac input. / 0.2 sec. Measured at 220Vac input. (Typ.)
	Ripple & Noise (3)		5% Vo (Max.)
	Overshoot / Undershoot		10% (Max.)
	Line Regulation		1% (Max.)
	Load Regulation		2% (Max.)
	Dynamic Response		Output Deviation : 5% Vo (Max.), Settling Time : 10mS **(4)**
Input	Rated Voltage		100-277 Vac
	Frequency Range		47Hz ~63Hz
	Leakage		.135mA (Typ.)
	Inrush Current		65A at 230Vac input 25°C Cold Start
	AC Current		1.5 A measured at full load and 100 Vac input / 0.8 A at 220Vac input 25°C cold start (Typ.)
Protection	Short Circuit		Protection type : Latch mode, recycle AC to restart after fault condition is removed, no damage to power supply
	Overload		135% I_o (Typ.) Protection type: Hiccup mode, recovers automatically after fault condition is removed.
	Over Temperature		Auto recovers after power supply cools.
Environmental	Temperature	Operational	- 30°C ~ 70°C (Ambient See derating curve)
		Storage	- 40 ~ +80°C (Ambient)
		Case	90°C (Max.)
	Humidity	Operational	10% ~ 100% RH
		Storage	5% ~100% R.H

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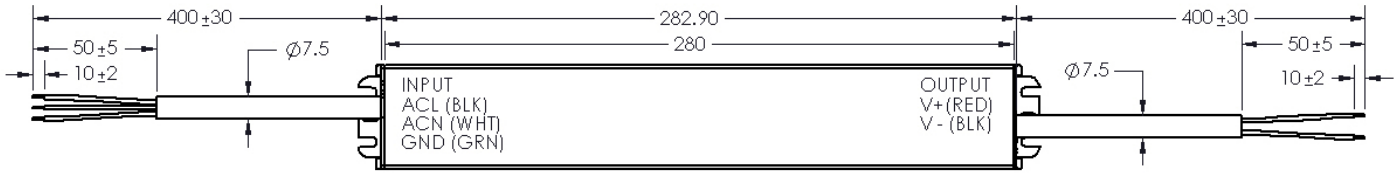
Safety & EMC	**Safety Standards**	UL8750, Compliance to UL1012 UL935, UL1310. UL879 CAN/CSA-C22.2 No. 0, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0
	Radiated & Conducted EMI	Meet EN55015: Class B
	EMS Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2 **(5)**, EN61000-4-3, EN61000-4-4, EN61000-4-5 **(6)**, EN 61000-4-6 **(7)**, EN 61000-4-8, EN 61000-4-11, EN 61547
	Case Temperature	90°C
Other	**MTBF**	528,000 Hours **(8)**
	Lifetime	70,000 Hours **(9)**
	Weight	1.2lbs.

Notes:

1. See part number builder.
2. ± 5%
3. Measured by 20 MHz bandwidth oscilloscope and the output parallel with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor
4. R/S: 1 A/ uS, Load: 25% ~ 75% full load.
5. 8 kV air discharge, 4 kV contact discharge
6. Line to line 2 kV, line to earth 4 kV
7. Conducted Radio Frequency Disturbances Test-CS
8. Measured at 110Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F).
9. Measured at 220Vac input, 80%Load and 45°C ambient temperature
10. Non Class 2 Output
11. Class 2 Output US & Canada
12. Class 2 Output US Only
13. All specifications are typical at full load and 25°C ambient unless otherwise stated.

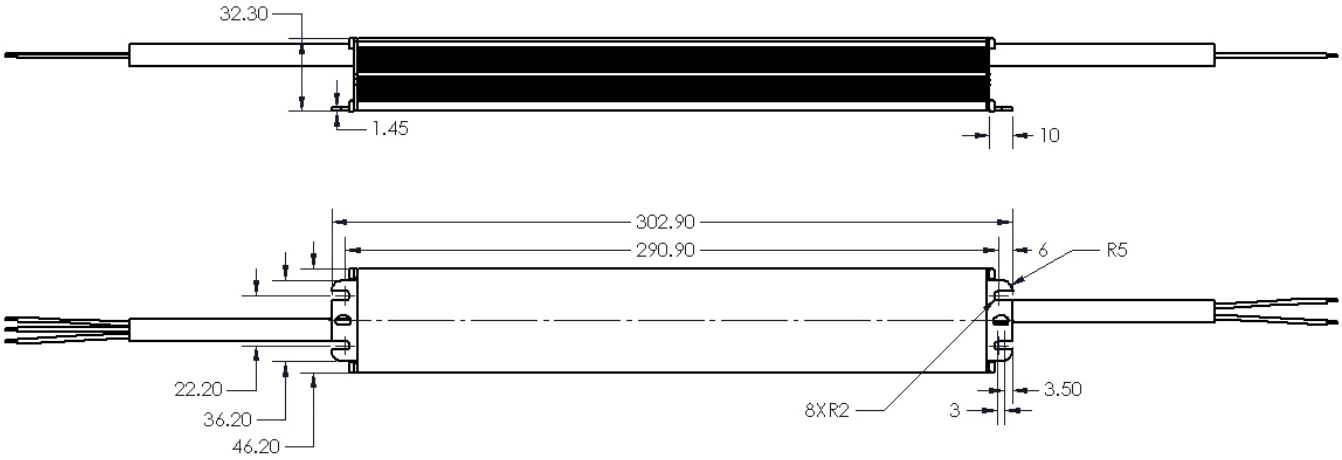
Mechanical Specifications

Metal Case



(UL)SJTW 18AWGX3C 105°C VW-1 300V

>24V DC - (UL)SJTW 18AWGX2C 105 °C VW-1 300V
12V DC - (UL)SJTW 16AWGX2C 105 °C VW-1 300V



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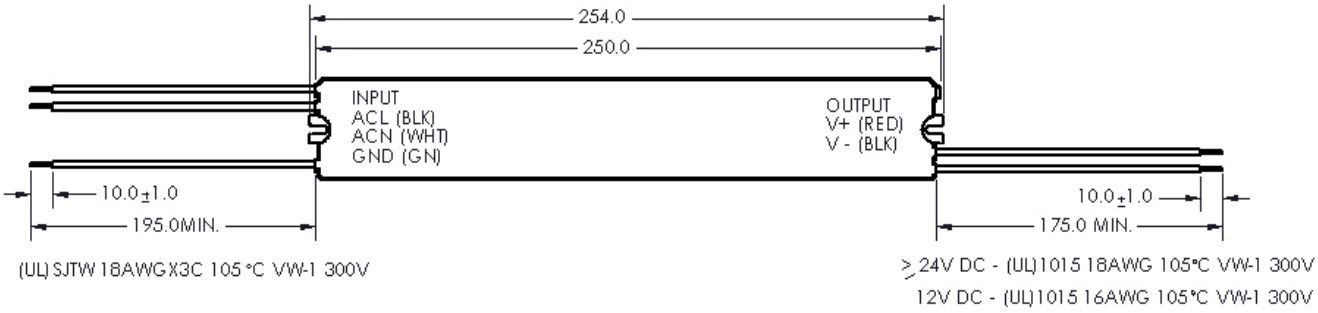
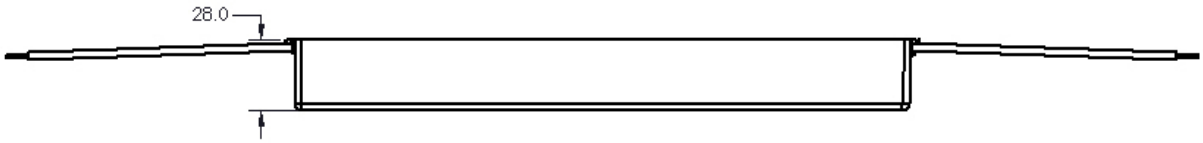
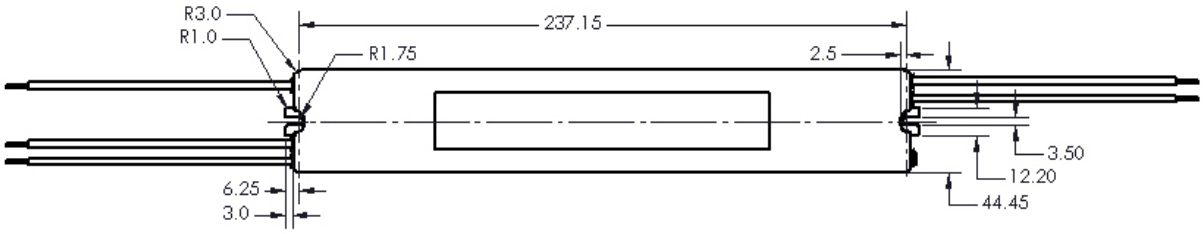
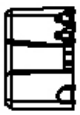
Plastic Case









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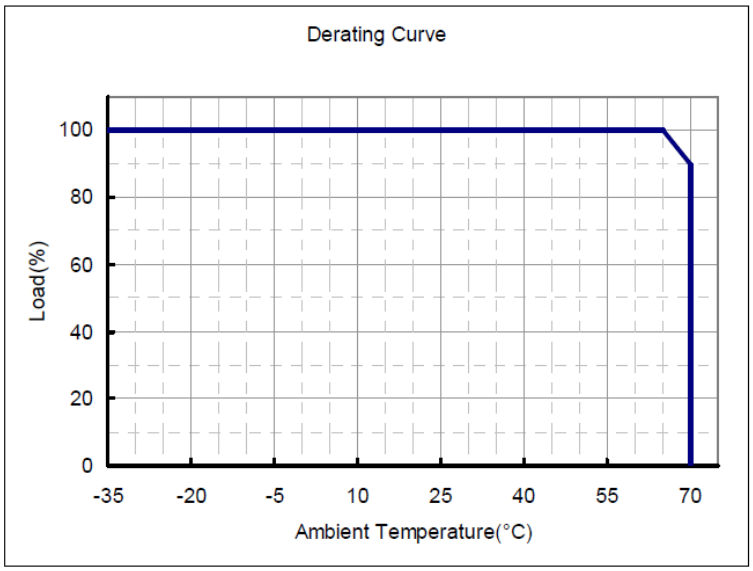
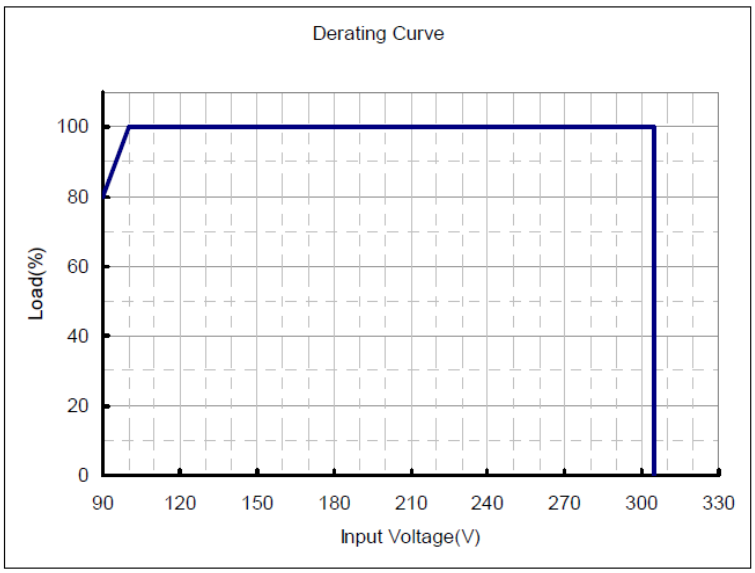
Derating Curves





PART NUMBER BULIDER

LWx 096- 0vv Sw-0CP-yy

- L = LED Driver
- W= wide input voltage 90~305Vac
- x= Case Material, P= Plastic S=Aluminum
- 096 = Output Power (Watts)
- 0vv = Max .Output voltage
- S = Single output
- w = Output Type
  1 = Non Class 2
  2 = Class 2 US & Canada
  3 = Class 2 US Only
- x = Dimming Type
  0 = Non dimming
  2 = 2 Wire Dimming
  3 = 3 Wire Dimming
- C = Constant Current
  V = Constant Voltage
  P = PLC
- yy = Non-Standard Part Indicator

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