

**FEATURES**

**120W Constant Current LED Driver**

**LSWC-120 Series**

- Wide AC Input 90~305VAC
- High Efficiency & High Power Factor – Meets DLC & Energy Star
- Option to Specify Any Output Current in the Range
- Operation from -35°C-70°C Full Load
- Certified to UL/cUL 8750, EN61347 & CE
- Short Circuit, Over Temperature & Over Voltage Protection
- IP67, Damp & Hazardous Location (HL) Certified
- RoHS Compliant



**SPECIFICATIONS**

Model #	Output Current Model Range (5)	Output Voltage Max. Range (5)	PF (2)		No Load Output Voltage	Ripple & Noise (3)	Efficiency (4)
			110VAC	277VAC			
<b>LSWC-120S027-045</b>	270-450mA	267-444V	0.99	0.9	107% of Maximum Rated Voltage	3% of Maximum Output Voltage	93.0%
<b>LSWC-120S046-075</b>	460-750mA	160-267V	0.99	0.9			92.0%
<b>LSWC-120S076-125</b>	760-1250mA	96-160V	0.99	0.9			91.0%
<b>LSWC-120S126-208</b>	1260-2080mA	58-96V	0.99	0.9			91.0%
<b>LSWC-120S209-350</b>	2090-3500mA	34-58V	0.99	0.9			90.0%
<b>LSWC-120S355-500</b>	3550-5000mA	24-34V	0.99	0.9			90.0%

Example: A **950mA** output would be model number **LSWC-120S076-125** and part number for ordering purposes of **LSWC-120S095ST**. Both numbers would be shown on the label.

**PART NUMBER BUILDER**

**LSWC- 120SxxxST-xxx**

LS= LED Driver, "S" Series

W=Wide Input Voltage 90~305Vac

C=Constant Current

T= Class I, 3 Wire Input

S=Metal Case

XXX=Output Current  
Use any current from 027 (270mA) to 500 (5000mA)

S=Single Output

120=Output Power (Watts)



<b>Output</b>	<b>Line Regulation</b>	1%	
	<b>Load Regulation</b>	3%	
	<b>Turn-on Delay</b>	0.8~1.2 s (Typ)	
<b>Input</b>	<b>Rated Voltage Range</b>	100-277 Vac	
	<b>Frequency Range</b>	47Hz ~63Hz	
	<b>Inrush Current</b>	65A cold start, Vin=230V	
	<b>AC Current (Typ.)</b>	1.25 A / 110 VAC, 0.61 A / 220 VAC @ full load	
	<b>THD</b>	≤20% @277Vac, 70% load	
	<b>Leakage</b>	0.75 mA Vin=277V, 50Hz	
<b>Protections</b>	<b>Short Circuit</b>	Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	<b>Over Temperature</b>	110°C internal temperature auto recovers after power supply cools	
	<b>Over Voltage (Typ.)</b>	130% of max. output voltage Latch mode. The power supply shall return to normal operation after recycling AC.	
<b>Environmental</b>	<b>Temperature Range</b>	<b>Operational</b>	- 35°C - 70°C, Max. case temperature 85°C
		<b>Storage</b>	- 40 - 85°C
	<b>Humidity</b>	<b>Operational</b>	10% - 100% RH
		<b>Storage</b>	5% -100% R.H

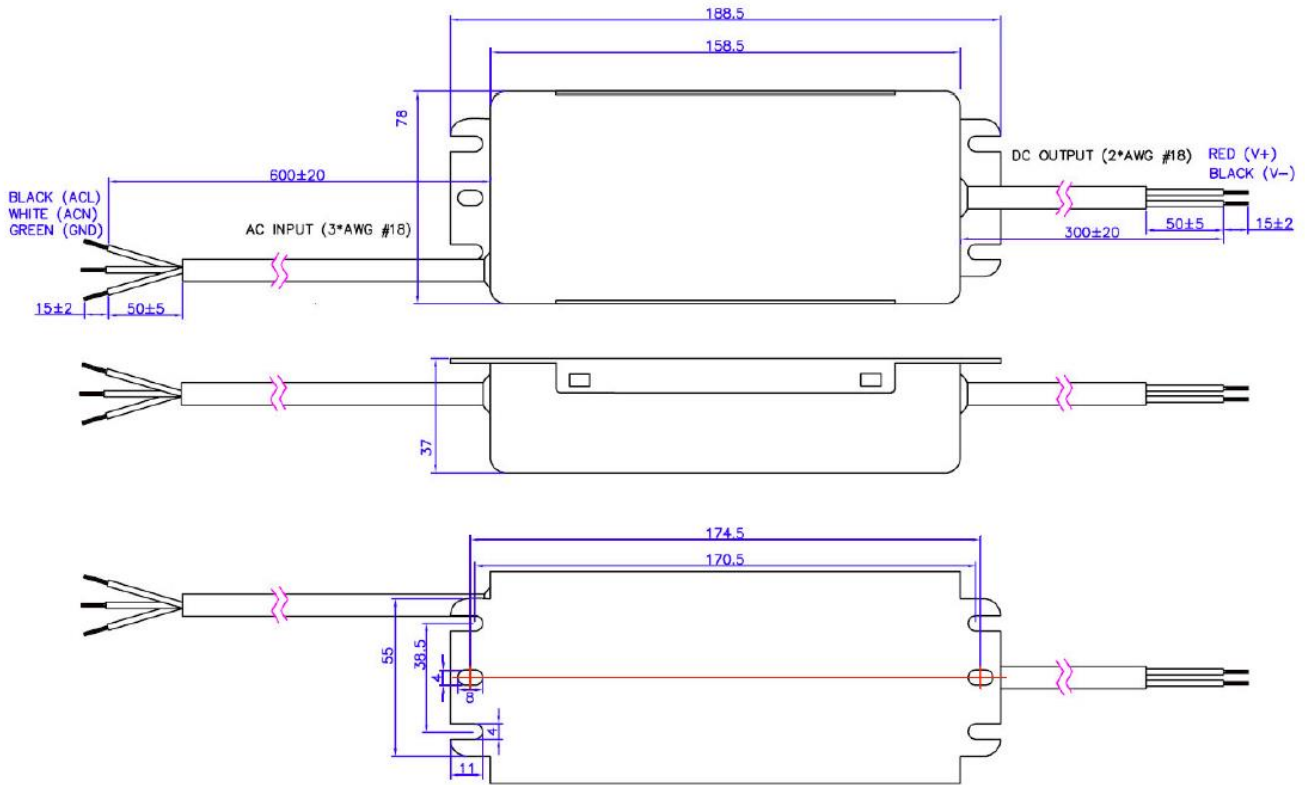
<b>Safety &amp; EMC</b>	<b>Safety Standards</b>	UL8750, UL935, UL1012, CSA-C22.2 NO. 107.1 EN61347-1 EN61347-2-13
	<b>EMI Conduction &amp; Radiation</b>	EN55015
	<b>EMS Immunity</b>	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547
<b>Others</b>	<b>MTBF</b>	275,000 Hours
	<b>Life Time</b>	82,000 Hours
	<b>Dimensions</b>	(L*W*H) 7.40*3.07*1.46 inches / (L*W*H) 188.5*78*37mm
	<b>Weight</b>	900G

**NOTES:**

1. All specifications are typical at 25°C unless otherwise stated.
2. The values are measured at 70% load, after the unit is thermally stabilized.
3. The "Ripple & Noise" values are measured by 20MHz bandwidth oscilloscope and the output parallel a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor.
4. @220Vac.
5. ±5V
6. Measured at 220VAC



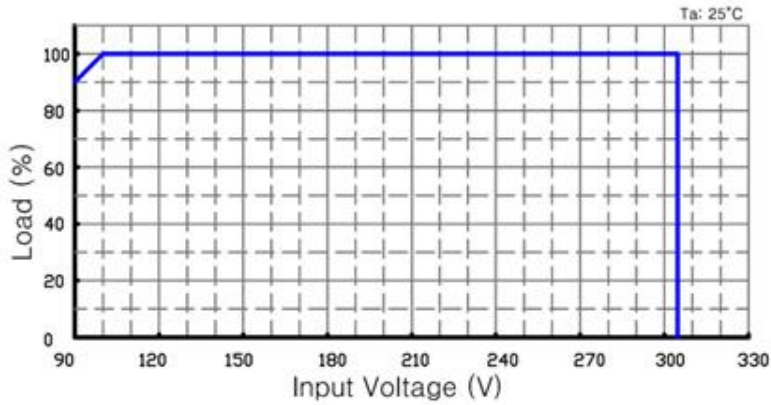
Mechanical Specification



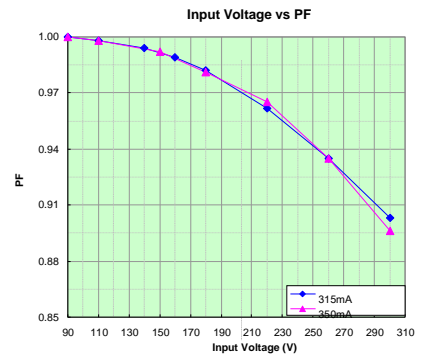
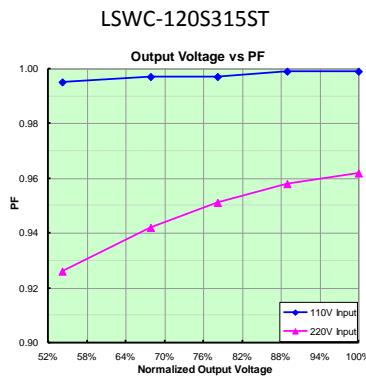
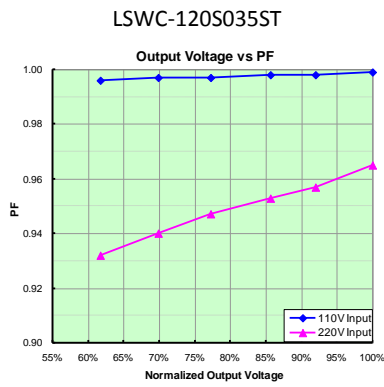
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Derating Curves



Power Factor Curves



Efficiency vs Load

