

FEATURES

- 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

120W Constant Current LED Driver

LSWC-120 Series



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			
LSWC-120S027-045	270-450mA	267-444V	0.99	0.9	107% of Maximum Rated Voltage	3% of Maximum Output Voltage	93.0%
LSWC-120S046-075	460-750mA	160-267V	0.99	0.9			92.0%
LSWC-120S076-125	760-1250mA	96-160V	0.99	0.9			91.0%
LSWC-120S126-208	1260-2080mA	58-96V	0.99	0.9			91.0%
LSWC-120S209-350	2090-3500mA	34-58V	0.99	0.9			90.0%
LSWC-120S355-500	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)



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

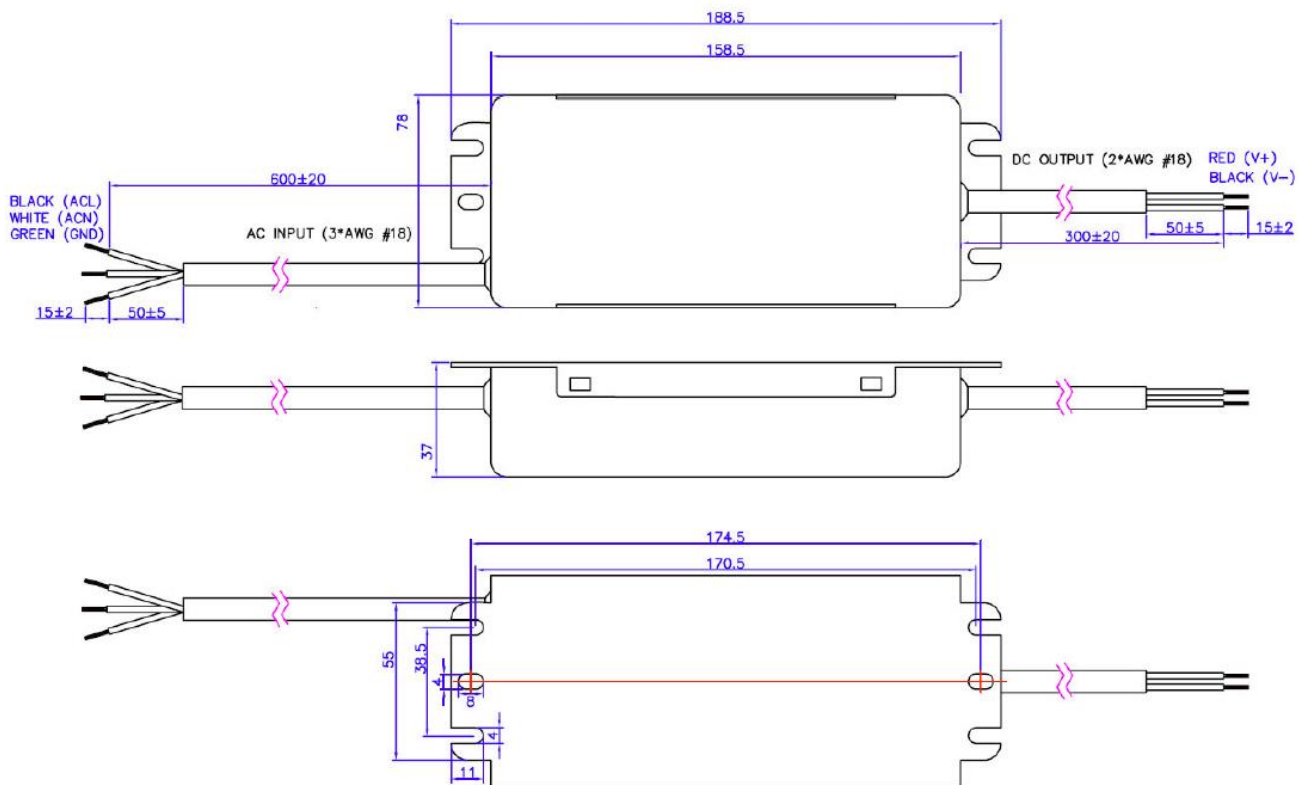
Safety & EMC	Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 NO. 107.1 EN61347-1 EN61347-2-13	
	EMI Conduction & Radiation	EN55015	
	EMS Immunity	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547	
Others	MTBF	275,000 Hours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



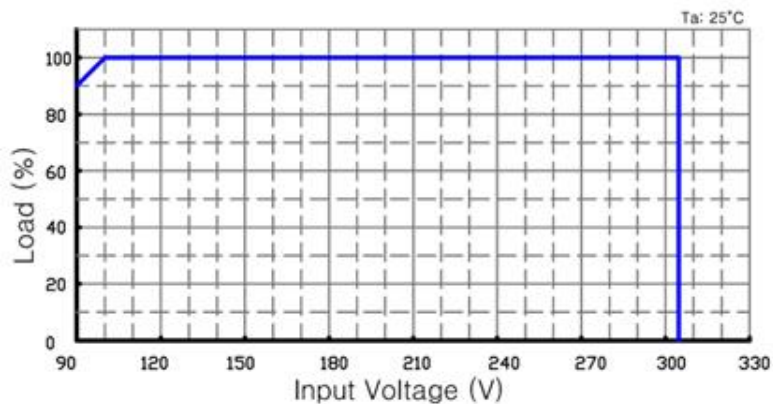
Mechanical Specification



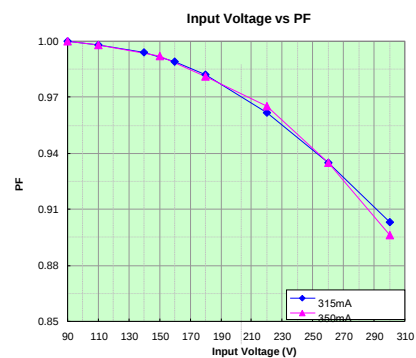
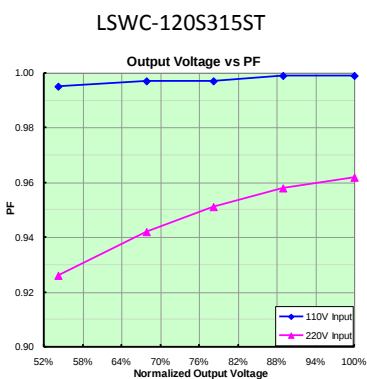
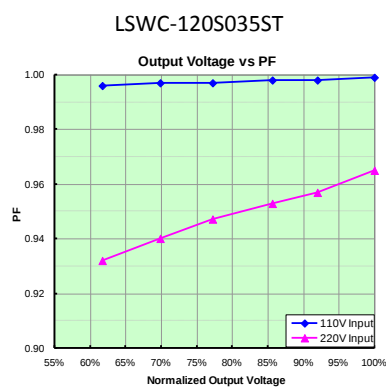
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Derating Curves



Power Factor Curves



Efficiency vs Load

