

FEATURES
120W Constant Current LED Driver
LSWC-120 Series

- Wide AC Input 90~305VAC
- High Efficiency & High Power Factor
- Operation from -35°C~70°C Full Load
- IP67
- RoHS Complaint
- Certified to UL/cUL 8750


SPECIFICATIONS

Model #	Output Current	Output Voltage Range	PF (2)		No Load Output	Ripple & Noise (3)	Efficiency
			110VAC	220VAC			
LSWC-120S035ST(4)	350mA	206~343V	0.99	0.96	360	10.3V	91.0%
LSWC-120S045ST(4)	450mA	160~267V	0.99	0.96	284	8.0V	91.0%
LSWC-120S070ST	700mA	103~171V	0.99	0.96	181	5.1V	90.0%
LSWC-120S105ST(4)	1050mA	69~114V	0.99	0.96	120	3.4V	89.0%
LSWC-120S140ST	1400mA	51~86V	0.99	0.96	90	2.6V	89.0%
LSWC-120S175ST(4)	1750mA	41~69V	0.99	0.96	72	2.1V	88.0%
LSWC-120S210ST	2100mA	34~57V	0.99	0.96	60	1.7V	88.0%
LSWC-120S280ST	2800mA	26~43V	0.99	0.96	45	1.3V	88.0%
LSWC-120S350ST	3150mA	23~38V	0.99	0.97	40	1.2V	87.5%

Output	Line Regulation	1%	
	Load Regulation	3%	
	Turn-on Delay	0.8~1.2 s (Typ)	
	Leakage	0.75 mA Vin=277V, 50Hz	
Input	Voltage Range	90 ~ 305 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
Protections	Short Circuit	Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature	110 °C internal temperature auto recovery after power supply cools (Typ.)	
	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
		Storage	- 40 ~ +85°C
	Humidity	Operational	10% ~ 100% RH
		Storage	5% ~100% R.H

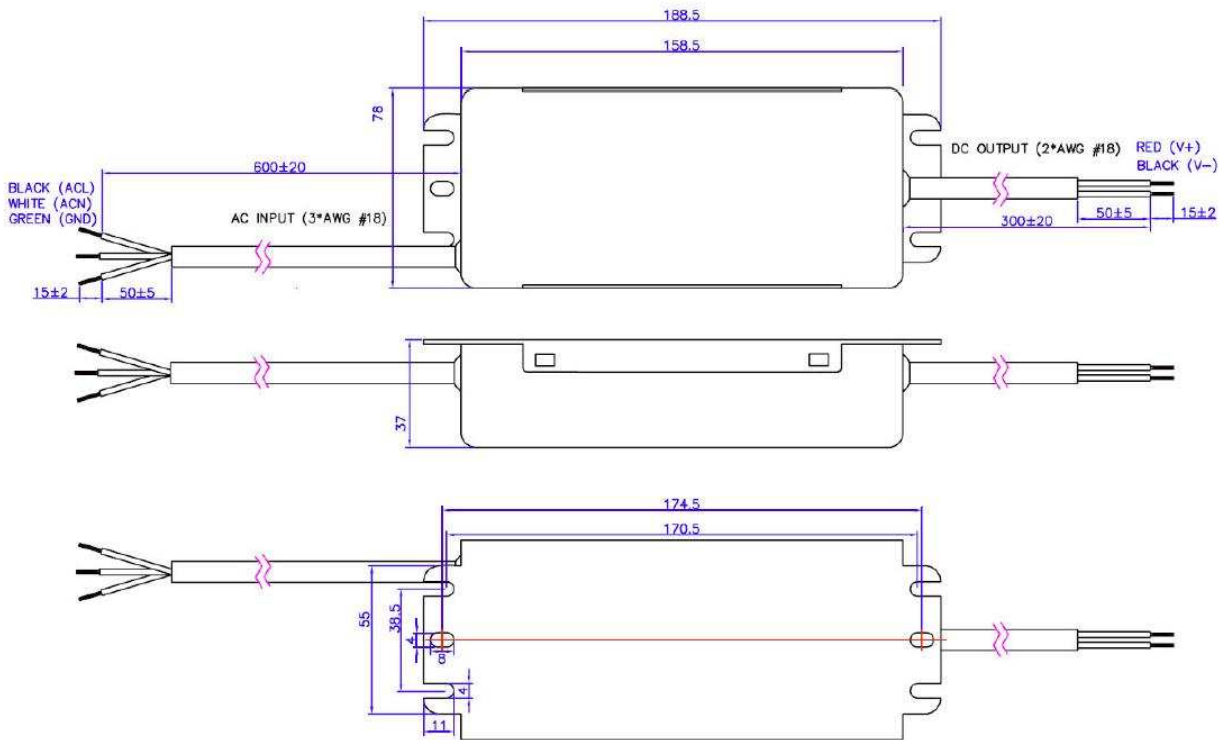


Safety & EMC	Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 NO. 107.1 EN61347-1 EN61347-2-13
	EMI Conduction & Radiation	EN55015
	EMS Immunity	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547
Others	MTBF	275,000 Hours
	Life Time	82,000 Hours
	Dimensions	(L*W*H) 7.40*3.07*1.46 inches / (L*W*H) 188.5*78*37mm
	Weight	1100G

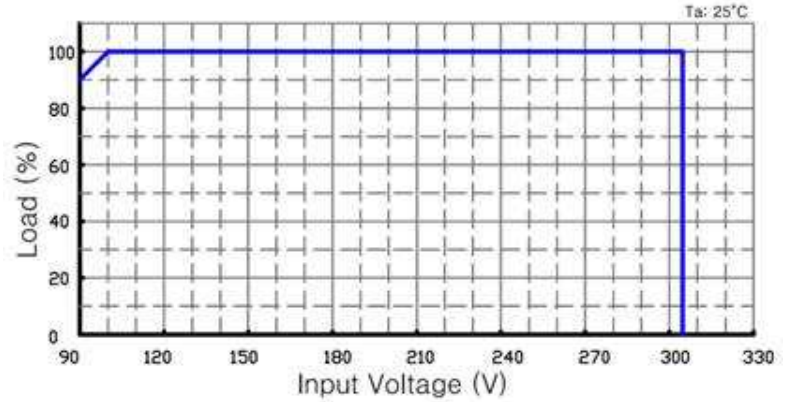
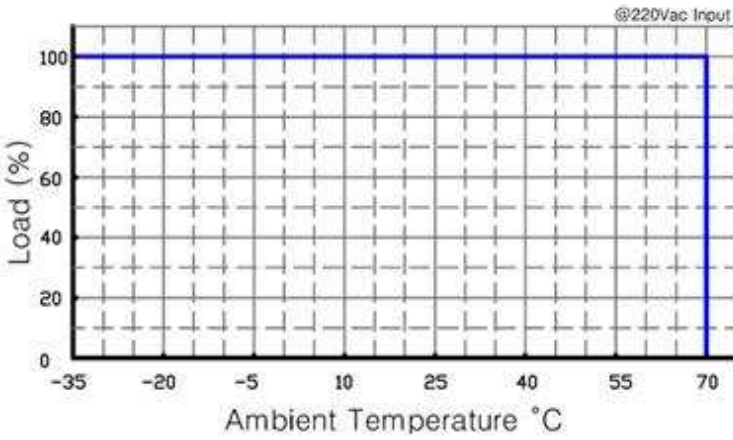
NOTE:

1. All specifications are typical at 25°C unless otherwise stated.
2. The "Efficiency" & "PF" values are measured at full load, after the unit is thermally stabilized, otherwise they will be lower about 1%.
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. Safety pending.
5. Voltage $\pm 5V$
6. Measured at 220VAC

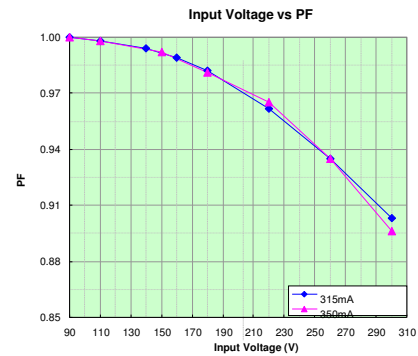
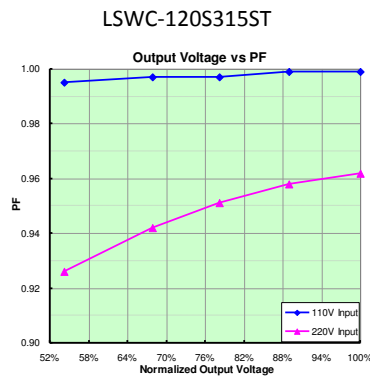
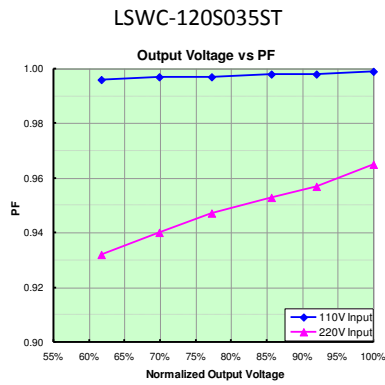
Mechanical Specification



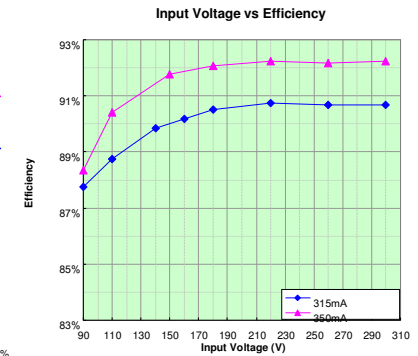
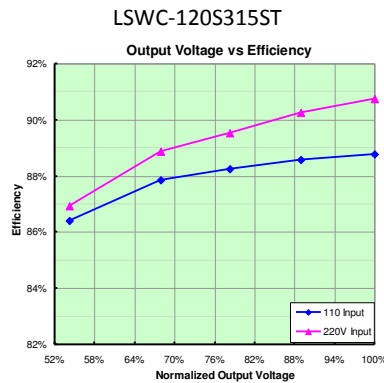
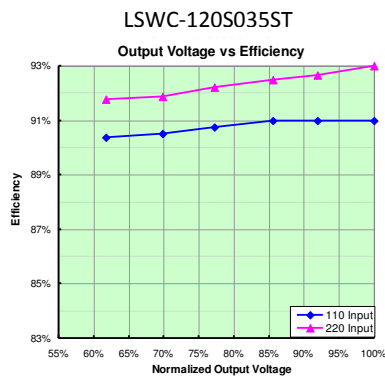
Derating Curves



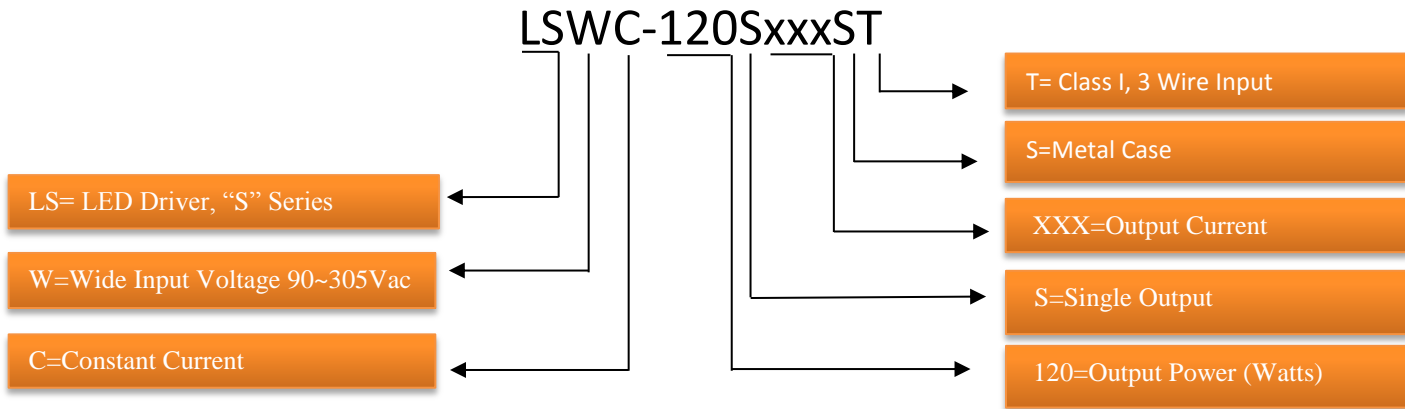
Power Factor Curves



Efficiency vs Load



PART NUMBER SCHEME



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