

FEATURES

120W Constant Current Dimming LED Driver LSWCD120 Series

- 0-10V, PWM (Output) & Timer Dimming
- 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

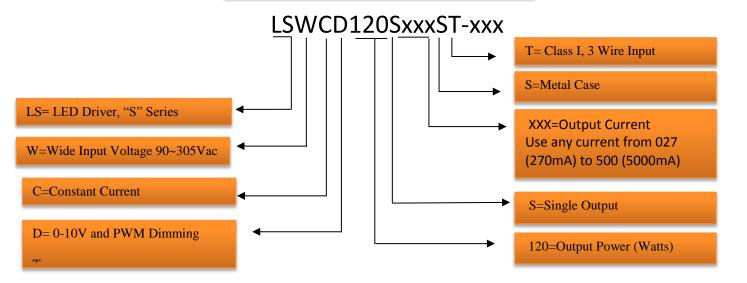


SPECIFICATIONS

Model #	Model # Output		PF (2)		No Load	Ripple &	T100* 1 (4)
	Current Model Range (5)	Voltage Max. Range (5)	110VAC	277VAC	Output Voltage	Noise (3)	Efficiency (4)
LSWCD120S027-045	270-450mA	267-444V	0.99	0.9			93.0%
LSWCD120S046-075	460-750mA	160-267V	0.99	0.9	107% of	3% of	92.0%
LSWCD120S076-125	760-1250mA	96-160V	0.99	0.9	Maximum	Maximum	91.0%
LSWCD120S126-208	1260-2080mA	58-96V	0.99	0.9	Rated	Output	91.0%
LSWCD120S209-350	2090-3500mA	34-58V	0.99	0.9	Voltage	Voltage	90.0%
LSWCD120S355-500	3550-5000mA	24-34V	0.99	0.9			90.0%

Example: A 950mA output would be model number LSWCD120S076-125 and part number for ordering purposes of LSWCD120S095ST. Both numbers would be shown on the label.

PART NUMBER BUILDER



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	71D 1.41		10/			
Ę	Line Regulation	1%				
Output	Load Regulation	3%				
0	Turn-on Delay	0.8~1.2 s (Typ)				
	Rated Voltage Range	100-277 Vac				
	Frequency Range	47Hz ~63Hz				
Input	Inrush Current	65A cold start, Vin=230V				
프	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				
SL	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
Protections	Over Temperature	110°C internal temperature auto recovers after power supply cools				
Prot	Over Voltage (Typ.)	130% of max. output voltage Latch mode. The power supply shall return to normal operation after recycling AC.				
Environmental	_	Operational	- 35°C - 70°C, Max. case temperature 85°C			
	Temperature Range	Storage	- 40 - 85°C			
	** ***	Operational	ational 10% - 100% RH			
	Humidity	Storage	5% -100% R.H			

8	Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 NO. 107.1 EN61347-1 EN61347-2-13				
Safety & EMC	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:

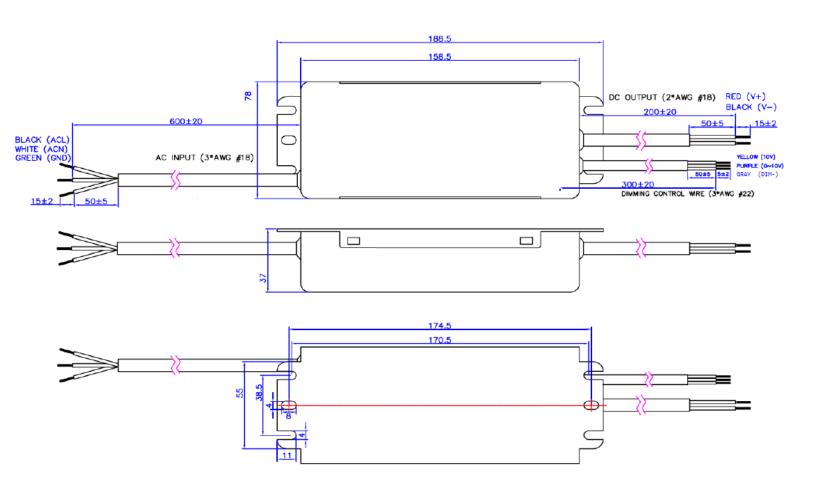
- 1. All specifications are typical at 25°C unless otherwise stated.
- 2. The values are measured at 70% load, after the unit is thermally stabilized.
- 3. The "Ripple & Noise" values are measured by 20MHz bandwidth oscilloscope and the output parallel a 0.1uF ceramic capacitor and a 10uF electrolytic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



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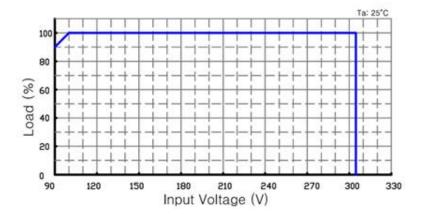


Mechanical Specifications

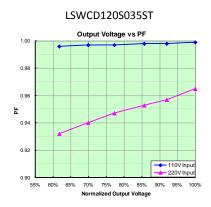


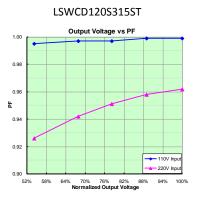


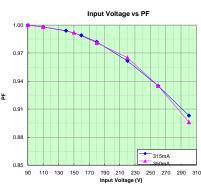
Derating Curves



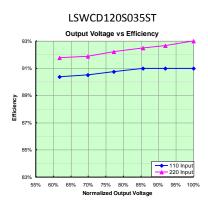
Power Factor Curves

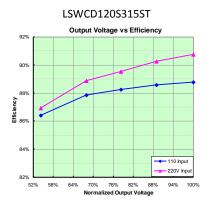


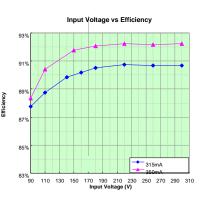




Efficiency vs Load



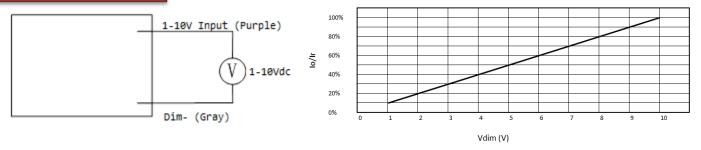




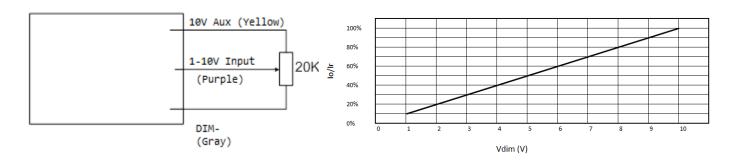
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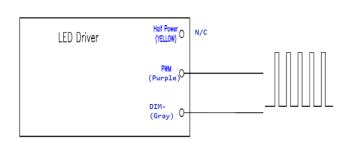
Dimming Function



Mode 1: 1-10Vdc Input on Dimming Control



Mode 2 : Potentiometer on Dimming Control





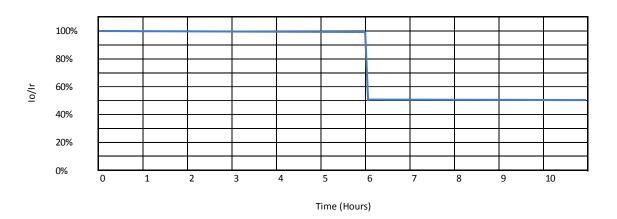
Parameter	Values	Conditions	
Input Voltage	0~10 V		
Input Current	10 mA	Purple wire.	
PWM Frequency	0.5 ~ 3 kHz		
PWM Pulse Width	10%~100%		

Mode 3: PWM Signal on Dimming Wires

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Mode 4: Timer Dimming (Does not require dimming wires)

Standard power/time combination above, can be factory set to customer specification. Recycle AC to restart timer.

NOTE: 1. If the dimming function is not used, short 10V aux pin (yellow) and 1-10V input pin (purple

- **2.** Io is actual output current and Ir is rated current without dimming control.
- 3. For the driver to operate properly, the load voltage must be maintained above the minimum voltage threshold, proximally 50% of the max. output voltage for any given mode.
- **4.** The dimming signal is allowed to be less than 1V, when it is 0-1V, the output current can maintain about 10%Ir, however, the connected LEDs may flicker. Keeping dimming voltage greater than 1V in application is strongly recommended.
- **5.** Pulse width less than 10% will cause the driver working improperly.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AUTEC IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMMISIONS

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