

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
- 0–10V, PWM (Output) & Timer Dimming
- Short Circuit, Over Temperature & Over Voltage Protection
- IP67
- RoHS Compliant

150W Constant Current with Dimming

LSWCD150 Series



SPECIFICATIONS

Model #	Output Current Model Range (5)	Output Voltage Max. Range (5)	PF (2)		No Load Output Voltage	Ripple & Noise (3)	Efficiency (6)
			110VAC	277VAC			
LSWCD150S033-056	330-560mA	267-444V	0.99	0.9	107% of Maximum Rated Voltage	3% of Maximum Output Voltage	93%
LSWCD150S056-093	560-930mA	160-267V	0.99	0.9			93%
LSWCD150S093-150	930-1500mA	96-160V	0.99	0.9			92%
LSWCD150S150-260	1500-2600mA	58-96V	0.99	0.9			91%
LSWCD150S260-430	2600-4300mA	34-58V	0.99	0.9			90%
LSWCD150S430-625	4300-6250mA	24-34V	0.99	0.9			89%

Output voltage range is 60-100% of max load, example 1000ma fixed current provides 72–120Vdc. (5)

Example: A **950mA** output would be model number LSWCD150S093-150 and part number for ordering purposes of **LSWCD150S095ST**. Both numbers would be shown on the label.

PART NUMBER BUILDER

LSWCD150SxxxST-xxx

LS= LED Driver, "S" Series

W=Wide Input Voltage 90~305Vac

C=Constant Current

D= 0-10 & PWM Dimming
T = Timer Dimming

-xxx = Non-standard indicator or blank

T= Class I, 3 Wire Input

S=Metal Case

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

S=Single Output

150=Output Power (Watts)



Output	Line Regulation	1%	
	Load Regulation	3%	
	Turn-on Delay	1.0-2.0 s	
Input	Rated Voltage	100-277 Vac	
	Frequency Range	47Hz ~63Hz	
	Inrush Current	65A cold start, Vin=230V	
	AC Current (Typ.)	1.6A / 110 VAC	0.75 A / 220 VAC
	Leakage	0.75 mA Vin=277V, 50Hz	
Protections	THD	<20% @ 277Vac & 70% load	
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature	110 °C internal temperature Auto recovers after power supply cools.	
Environment	Over Voltage	120% (Typ.) of max. output voltage Latch mode. The power supply shall return to normal operation after recycling AC.	
	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

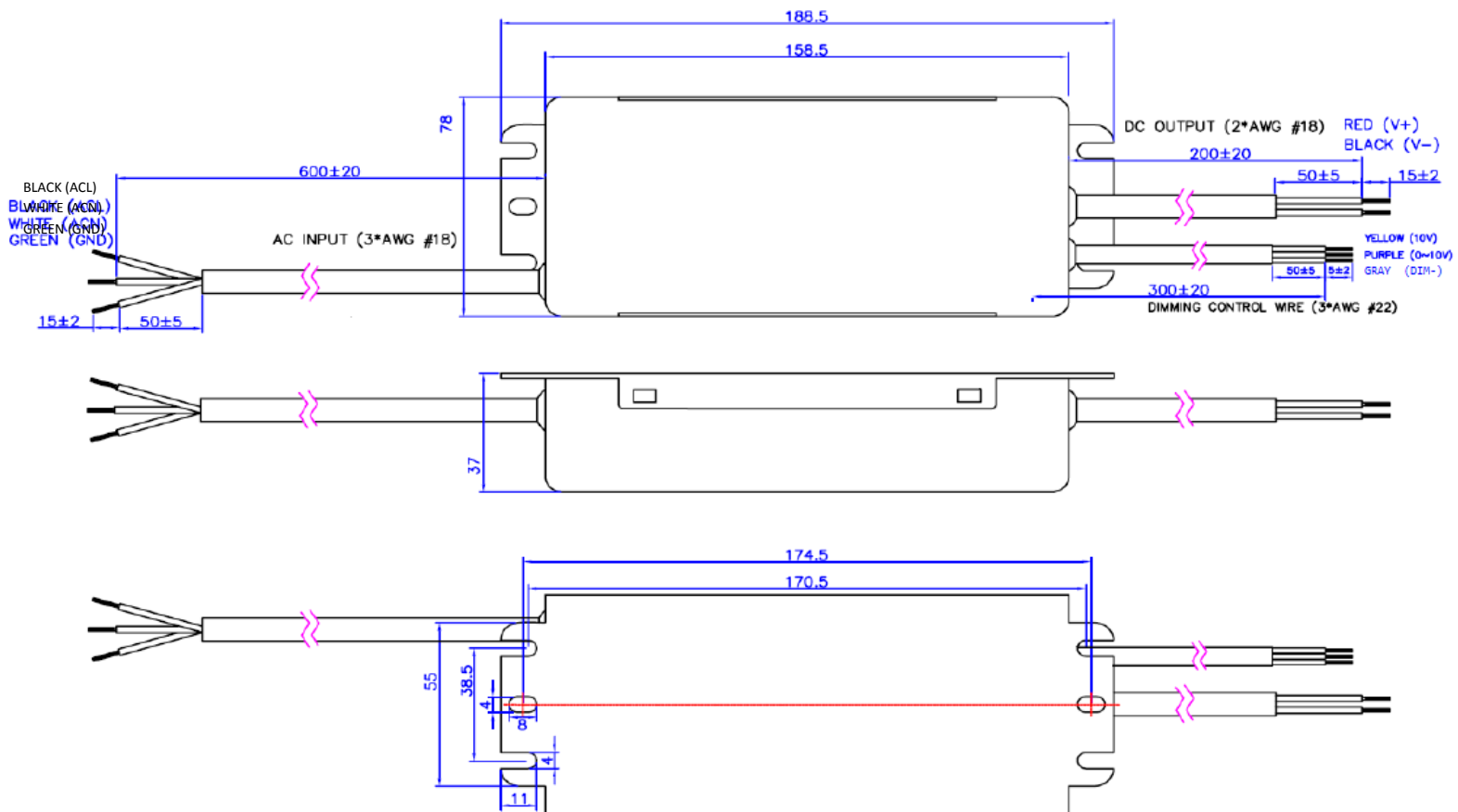
Safety & EMC	Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 NO. 107.1 EN61347-1 EN61347-2-13	
	EMI Conduction & Radiation	EN55015	
	EMS Immunity	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547	
Others	MTBF	350,000 Hours	
	Life Time	75,000 Hours	
	Dimensions	(L*W*H) 7.40*3.07*1.46 inches / (L*W*H) 188.5*78*37mm	
	Weight	1100G	

NOTE:

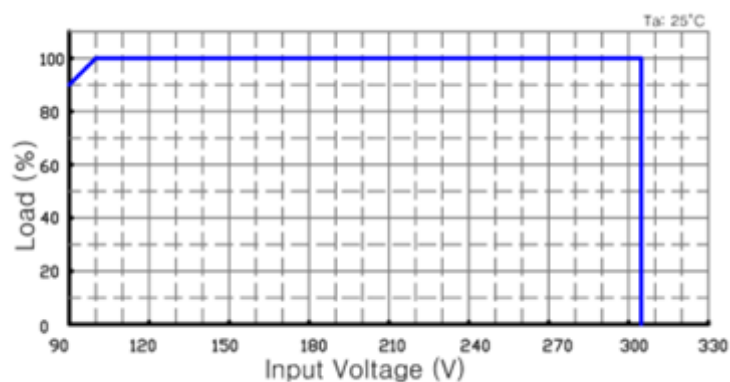
1. All specifications are typical at 25°C unless otherwise stated.
2. The "Efficiency" & "PF" values are measured at full load, after the unit is thermally stabilized, otherwise they will be lower about 1%.
3. The "Ripple & Noise" values are measured by 20MHz bandwidth oscilloscope and the output parallel a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor.
4. Safety pending.
5. Voltage ±5V
6. Measured at 220VAC



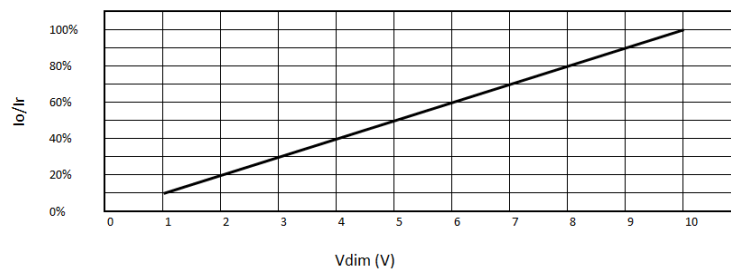
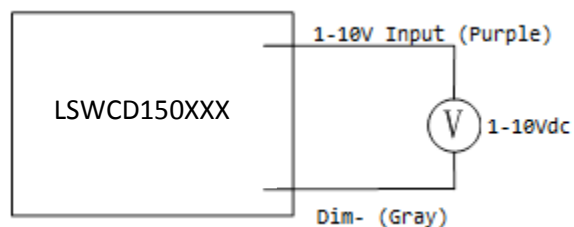
Mechanical Specifications



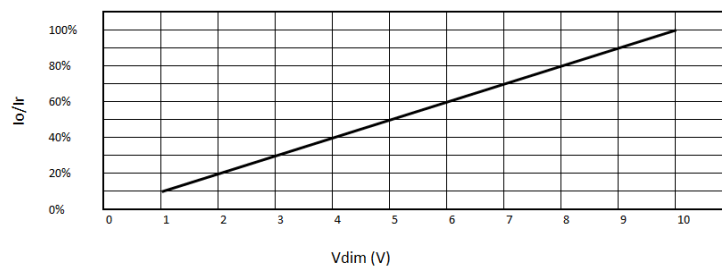
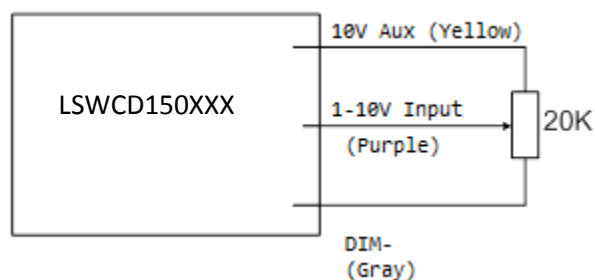
Derating Curves



Dimming Function

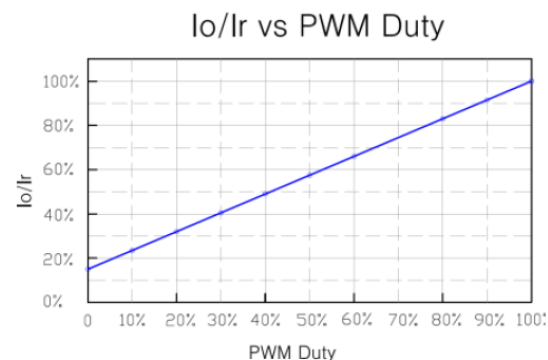
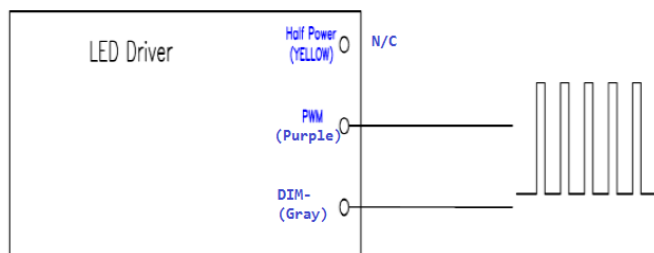


Mode 1 : 1-10Vdc Input on Dimming Control



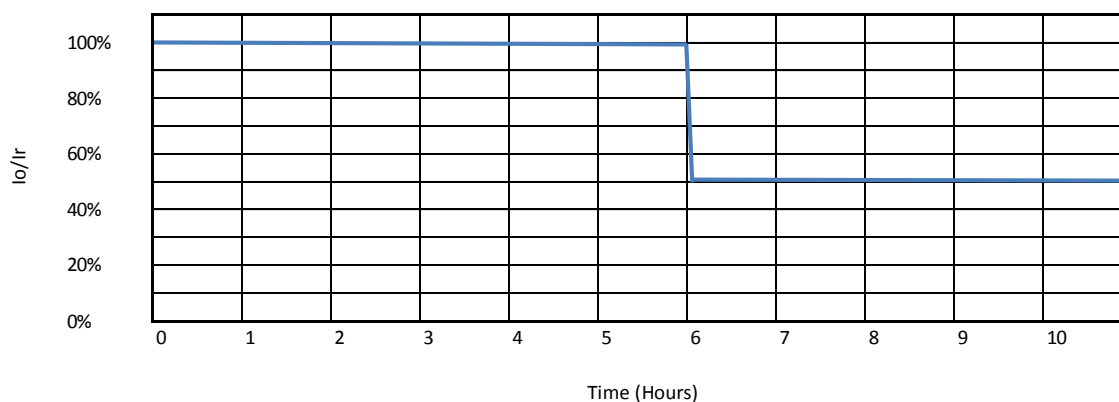
Mode 2 : Potentiometer on Dimming Control





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

Mode 3 : PWM Signal on Dimming Wires



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 AUTECH IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMISSIONS

