

FEATURES

150W Constant Current with Dimming

LSWCD150 Series

- Wide AC Input 90~305VAC
- High Efficiency & High Power Factor
- Operation from -35°C~60°C Full Load
- IP67
- RoHS Complaint
- Certified to UL/cUL 8750



SPECIFICATIONS

Model #	Output Current	Output Voltage Range	PF (2)		No Load Output $\pm 5V$	Ripple & Noise (3)	Efficiency @ 220Vac
			110VAC	120VAC			
LSWCD150S035ST	350mA	257~429V	0.99	0.96	446V	12.9V	93.0%
LSWCD150S045ST	450mA	200~333V	0.99	0.96	347V	10.0V	93.0%
LSWCD150S070ST	700mA	129~214V	0.99	0.96	223V	6.4V	93.0%
LSWCD150S105ST	1050mA	86~143V	0.99	0.96	149V	4.3V	93.0%
LSWCD150S140ST	1400mA	64~107V	0.99	0.96	111V	3.2V	92.5%
LSWCD150S175ST	1750mA	52~86V	0.99	0.96	89V	2.6V	92.5%
LSWCD150S210ST	2100mA	43~71V	0.99	0.96	78V	2.1V	92.0%
LSWCD150S280ST	2800mA	32~54V	0.99	0.96	58V	1.6V	91.0%
LSWCD150S315ST	3150mA	29~48V	0.99	0.96	52V	1.4V	91.0%
LSWCD150S350ST	3500mA	26~43V	0.99	0.96	47V	1.3V	91.0%
LSWCD150S420ST	4200mA	21~36V	0.99	0.96	37V	1.1V	91.0%

Output	Line Regulation	1%	
	Load Regulation	3%	
	Turn-on Delay	1.0~2.0 s (Typ)	
	Leakage	0.75 mA $V_{in}=277V$, 50Hz	
Input	Voltage Range	90 ~ 305 Vac	
	Frequency Range	47Hz ~63Hz	
	Inrush Current	65A cold start, $V_{in}=230V$	
	AC Current (Typ.)	1.6A / 110 VAC	0.75 A / 220 VAC
Protections	Short Circuit Protection	Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature Protection (Typ.)	110 °C internal temperature Auto recovery after power supply cools Typ.	
	Over Voltage (Typ.)	120% of max. output voltage Latch mode. The power supply shall return to normal operation after recycling AC.	
Environmental	Temperature Range	Operational	- 35°C ~ 60°C
		Storage	- 40 ~ +85°C
	Humidity	Operational	10% ~ 100% RH
		Storage	5% ~100% R.H

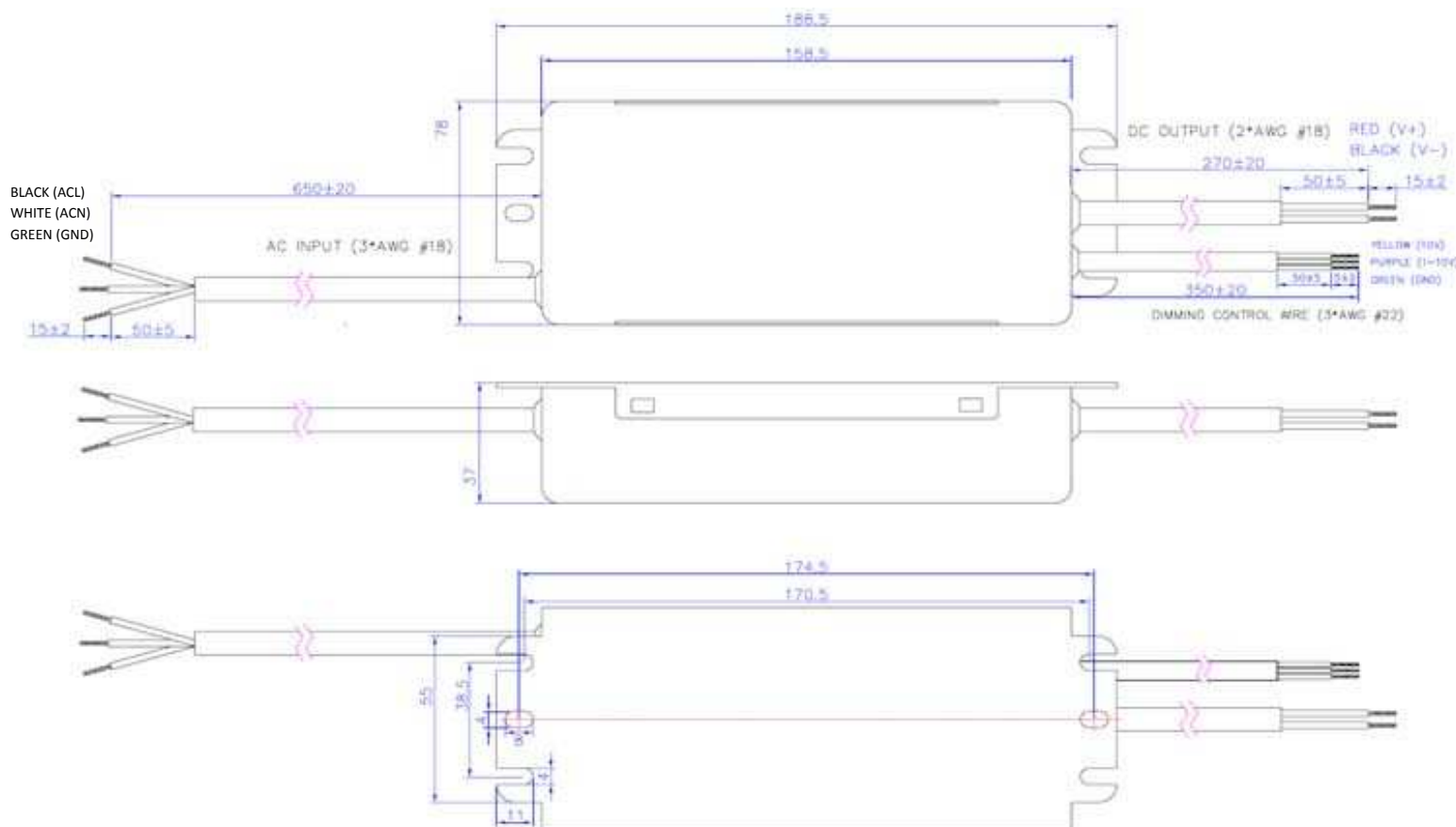


Safety & EMC	Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 NO. 107.1 EN61347-1 EN61347-2-13
	EMI Conduction & Radiation	EN55015
	EMS Immunity	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547
Others	MTBF	350,000 Hours
	Life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

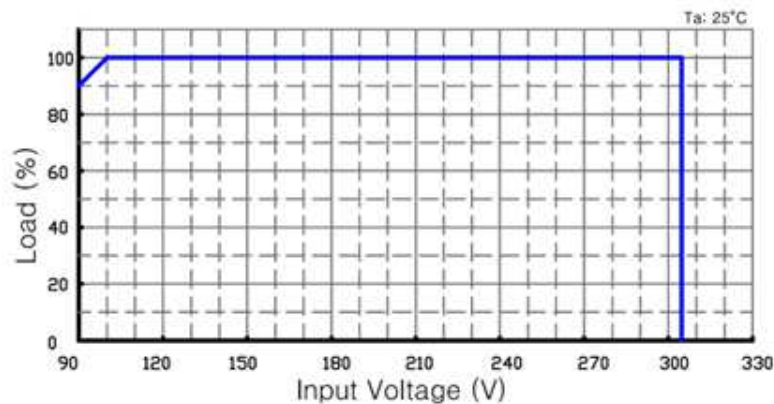
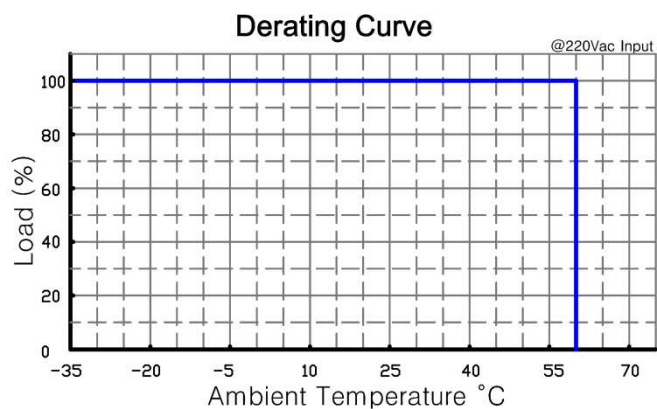
NOTE:

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 $\pm 5V$
6. Measured at 220VAC

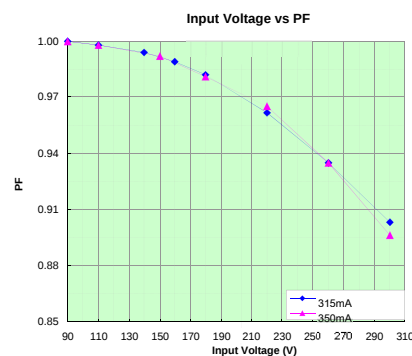
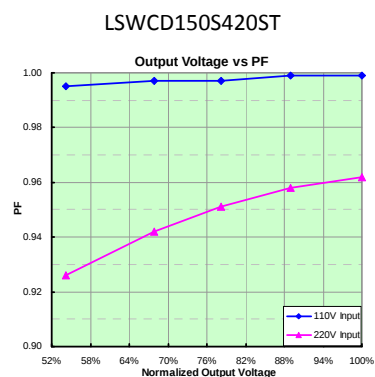
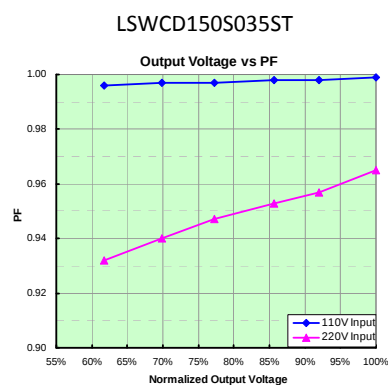
Mechanical Specification



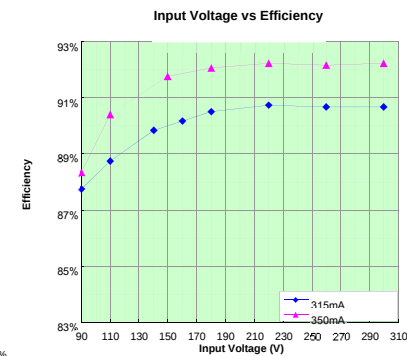
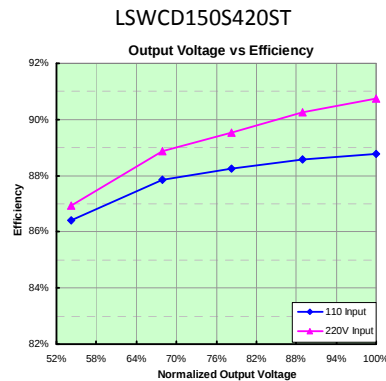
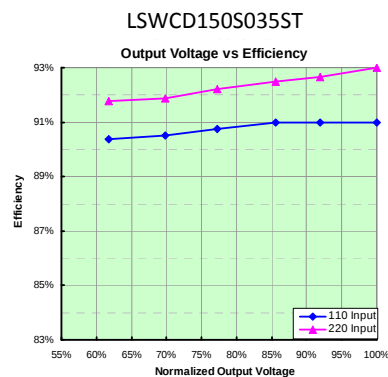
Derating Curves



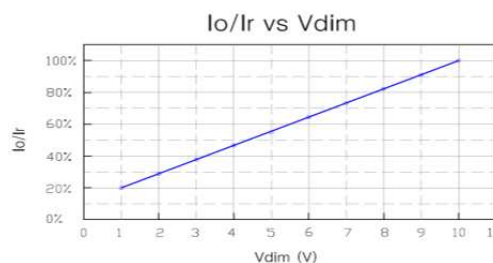
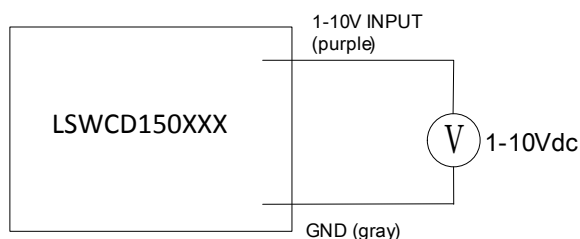
Power Factor Curves



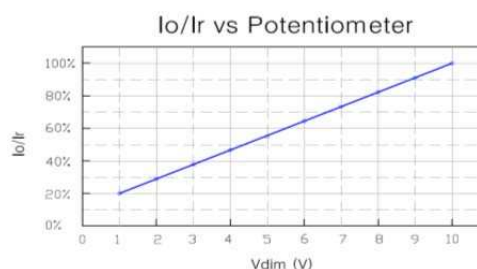
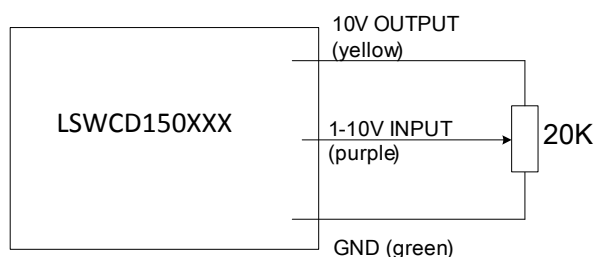
Efficiency vs Load



Dimming Function



Mode 1 : 1-10Vdc Input on Dimming Control



Mode 2 : External Resistor on Dimming Control

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

2. I_o is actual output current and I_r 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 for 0-1V, the output current can maintain about 10% I_r , however, the connected LEDs may flicker. Keeping dimming voltage greater than 1V in application is strongly recommended.
5. Do not connect the GND of dimming to the output. Otherwise, the LED driver cannot work normally.



PART NUMBER SCHEME

LSWCD150SxxxST

LS= LED Driver, "S" Series

W=Wide Input Voltage 90~305Vac

C=Constant Current

D= Dimming

T= Class I, 3 Wire Input

S=Metal Case

XXX=Output Current

S=Single Output

200=Output Power (Watts)

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

