

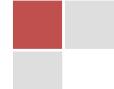
FEATURES

- Ultra High Efficiency (Up to 93%)
- Build-in Active PFC (0.99 Typical)
- All-Round protection: OVP, SCP, OTP
- Dimming Function
- Waterproof (IP67)
- Constant Output Current

150W Constant Current With Dimming
LSWCD150 SERIES

SPECIFICATION

	Model	LSWCD150S03SST	LSWCD150S04SST	LSWCD150S070ST	LSWCD150S105ST	LSWCD150S140ST	LSWCD150S175ST					
Output	Voltage	257~429	200~333	129~214	86~143	64~107	52~86					
	Current (min-max)	350 mA	450 mA	700 mA	1050 mA	1400 mA	1750 mA					
	No load Output Voltage ± 5 V	446	347	223	149	111	89					
	Ripple & Noise (3)	12.9 V	10.0 V	6.4 V	4.3 V	3.2 V	2.6 V					
	Line Regulation	1%										
	Load Regulation	3%										
	Turn-on Delay Time (typ-max)	1.0 ~2.0s										
Input	Leakage	0.75 m A Vin=277V, 50Hz										
	Voltage Range	90 ~ 305 Vac										
	Frequency Range	47Hz ~63Hz										
	PFC (2) 110VAC 220VAC	0.99 0.96	0.99 0.96	0.99 0.96	0.99 0.96	0.99 0.96	0.99 0.96					
	Efficiency (Typ.) at 220Vac * (2)	93.0%	93.0%	93.0%	93.0%	92.5%	92.5%					
	Inrush Current	65A cold start, Vin=230V										
	AC Current (Typ.)	1.6 A / 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										
	Over Voltage (Typ.)	1.2% Vo ±5% floating deviation (Latch mode. The power supply shall return to normal operation only after the power is turn-on again.)										
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										
	Dimension	Inches (L*W*H) 7.40*3.07*1.46 Millimeters (L*W*H) 188.5*78*37										
	Weight	1100G										



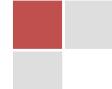
FEATURES

- Ultra High Efficiency (Up to 93%)
- Build-in Active PFC (0.99 Typical)
- All-Round protection: OVP, SCP, OTP
- Dimming Function
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- Constant Output Current

150W Constant Current with Dimming
LSWCD150 SERIES

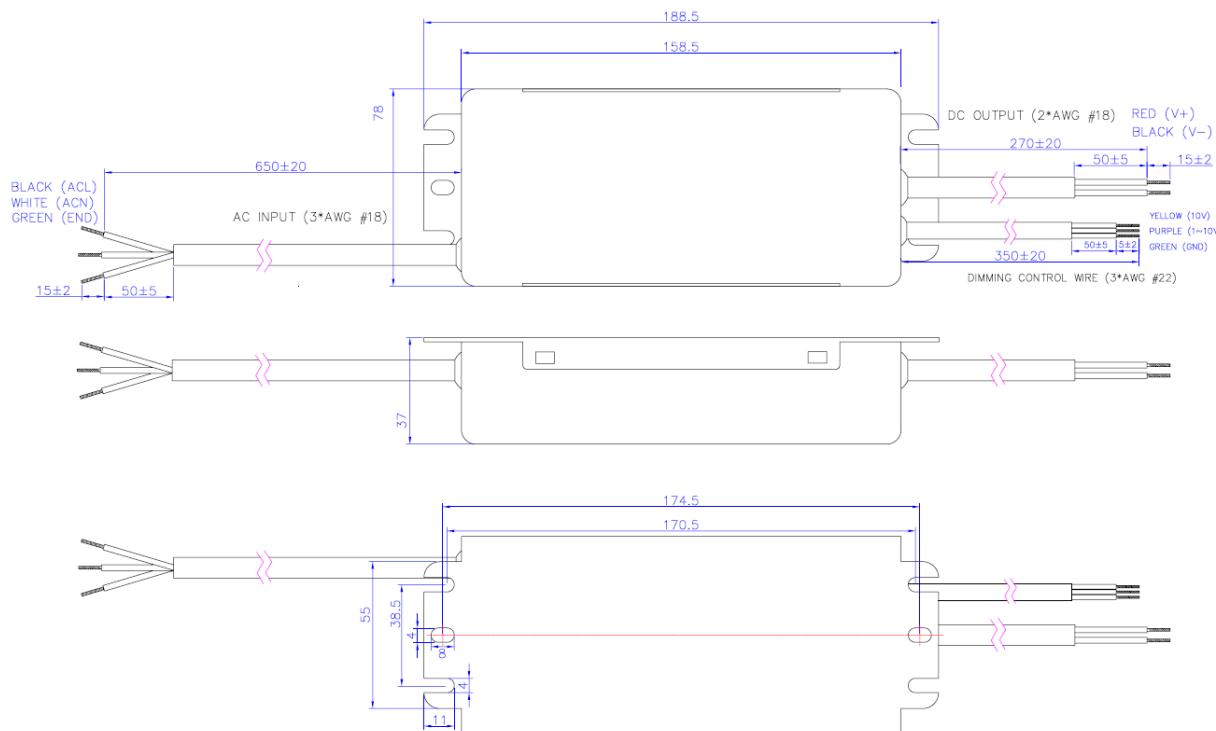
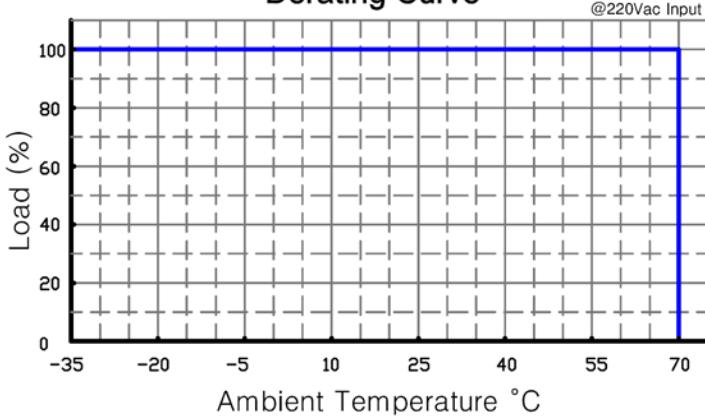
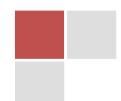
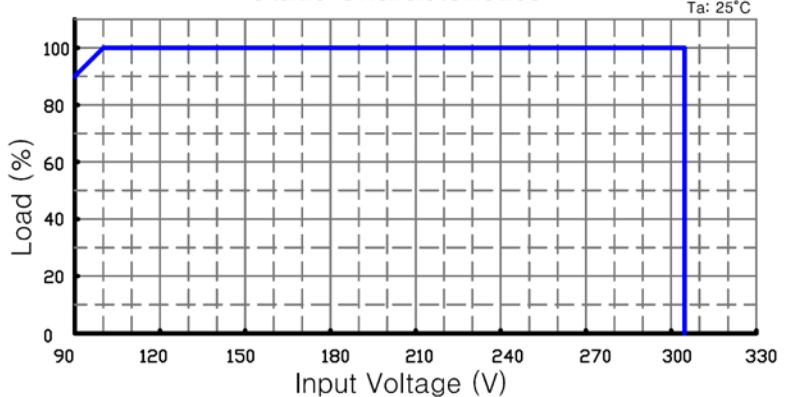
SPECIFICATION

	Model	LSWCD150S210ST	LSWCD150S280ST	LSWCD150S315ST	LSWCD150S350ST	LSWCD150S420ST	
Output	Voltage	43~71	32~54	29~48	26~43	21~36	
	Current Range	2100 mA	2800 mA	3150 mA	3500 mA	4200 mA	
	No load Output Voltage ± 5 V	78	58	52	47	37	
	Ripple & Noise (3)	2.1	1.6 V	1.4 V	1.3 V	1.1 V	
	Line Regulation			1%			
	Load Regulation			3%			
	Turn-on Delay			1.0 ~2.0s			
	Leakage			0.75 mA Vin=277V, 50Hz			
Input	Voltage Range			90 ~ 305 Vac			
	Frequency Range			47Hz ~ 63Hz			
	P FC (2) 110VAC	0.99	0.99	0.99	0.99	0.99	
	220VAC	0.96	0.96	0.96	0.96	0.96	
	Efficiency (Typ.) at 220Vac (2)	92.0	91.0%	91.0%	91.0%	91.0%	
	Inrush Current			65A cold start, Vin=230V			
Protections	AC Current (Typ.)			1.6 A / 110 VAC	0.75 A / 220 VAC		
	Short Circuit Protection			Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	Over Temperature Protection (Typ.)			110 °C			
Environmental	Over Voltage (Typ.)			1.2% Vo ±5% floating deviation (Latch mode. The power supply shall return to normal operation only after the power is turn-on again.)			
	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			
	Dimension (L*W*H)			Inches (L*W*H) 7.40*3.07*1.46 Millimeters (L*W*H) 188.5*78*37			
	Weight			1100G			

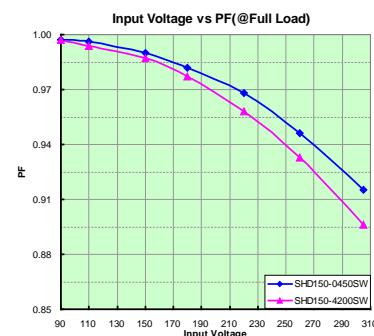
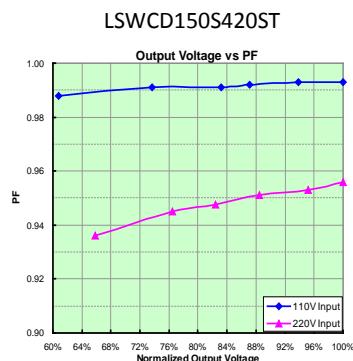
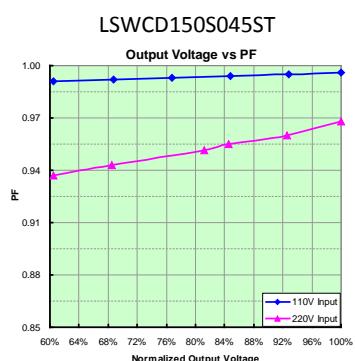


NOTE:

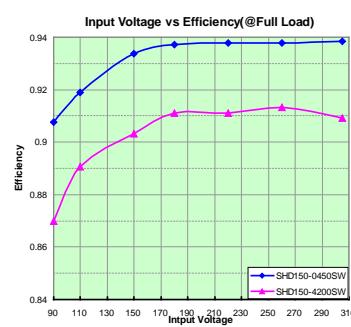
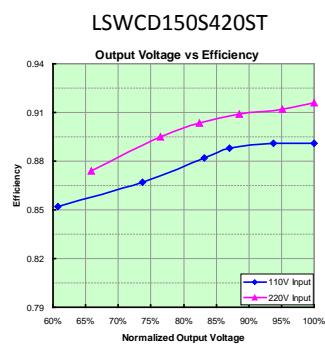
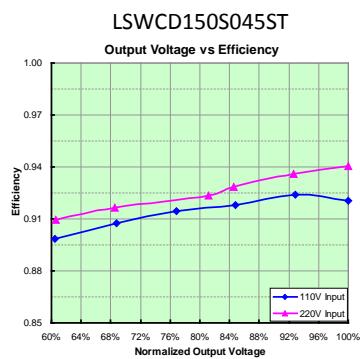
1. All specifications are typical at 25°C unless otherwise stated.
2. The “Efficiency” & “PF” values are measured at full load, after the unit is thermally stabilized, otherwise they will be lower about 1%.
3. The “Ripple & Noise” values are measured by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor.

Mechanical Specification

Derating Character
Derating Curve

Static Characteristics


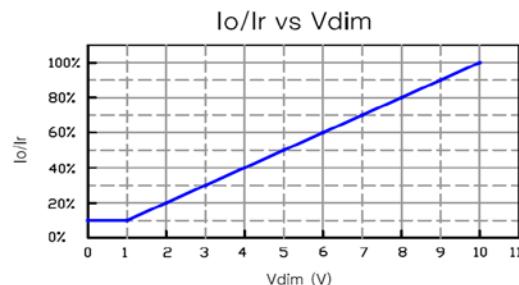
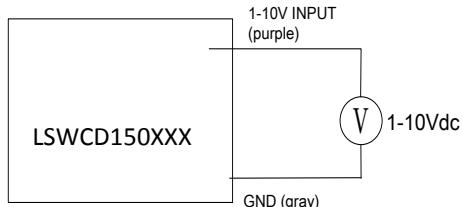
Power Factor Characters



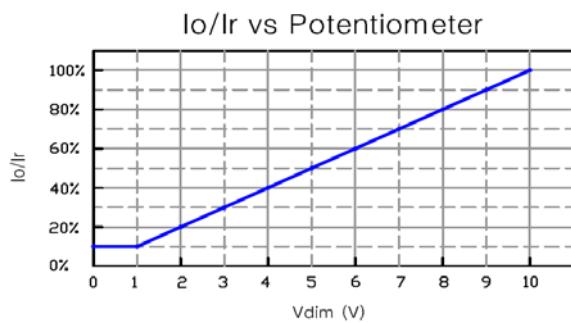
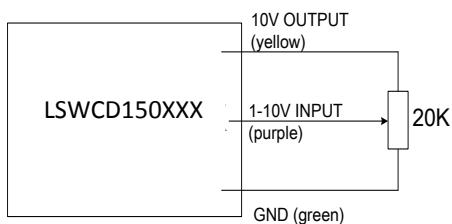
Efficiency vs Load



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 will not work.

PART NUMBER SCHEME

LSWCD150S070ST

