

FEATURES

150W Constant Current

LSWC-150 SERIES

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



SPECIFICATION

Model		LSWC-150S035ST	LSWC-150S045ST	LSWC-150S070ST	LSWC-150S105ST	LSWC-150S140ST	LSWC-150S175ST	
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	
	Line Regulation	1%						
	Load Regulation	3%						
	Turn-on Delay Time (typ-max)	1.0 ~2.0s						
	Leakage	0.75 m A Vin=277V, 50Hz						
Input	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	
	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					



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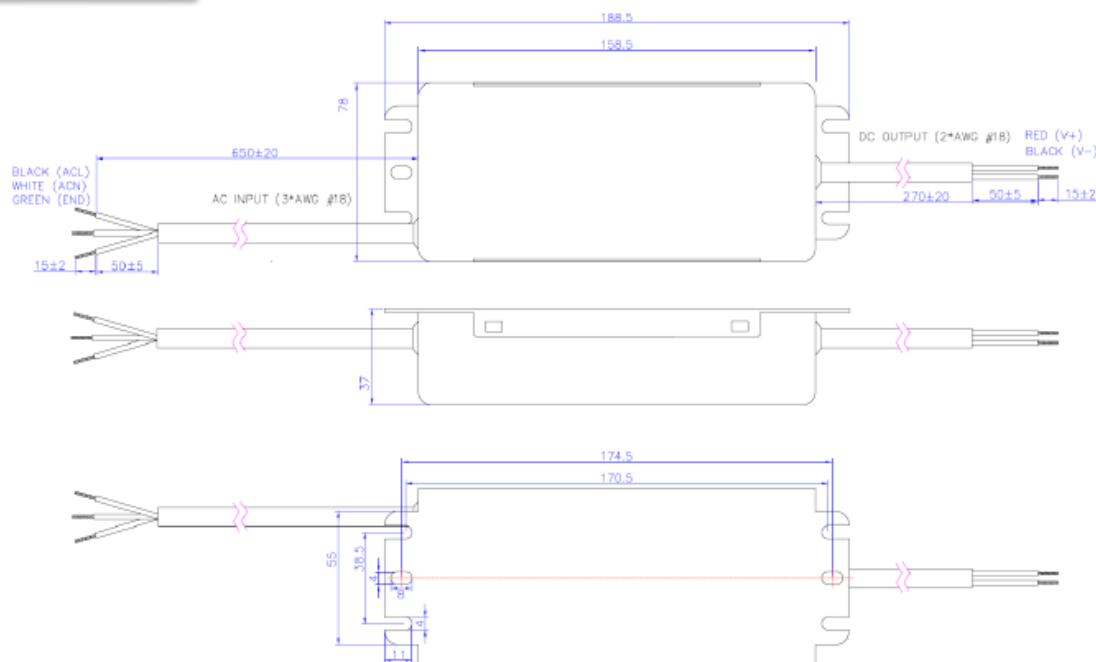
Model		LSWC-150S210ST	LSWC-150S315ST	LSWC-150S350ST	LSWC-150S420ST	LSWC-150S280ST
Output	Voltage	43~71	29~48	26~43	21~36	32~54
	Current Range	2100 mA	3150 mA	3500 mA	4200 mA	2800 mA
	No load Output Voltage ± 5 V	78	52	47	37	58
	Ripple & Noise (3)	2.1 V	1.4 V	1.3 V	1.1 V	1.6 V
	Line Regulation	1%				
	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			
	PFC (2)	110VAC	0.99	0.99	0.99	0.99
		220VAC	0.96	0.96	0.96	0.96
	Efficiency (Typ.) at 220Vac (2)		92.0%	91.0%	91.0%	91.0%
	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		
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Safety & EMC	Safety Standards		UL8750, UL935, UL1012, CSA-C22.2 No.107.1 EN61347-1, EN61347-2-13			
	EMI Conduction & Radiation		EN55015			
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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:

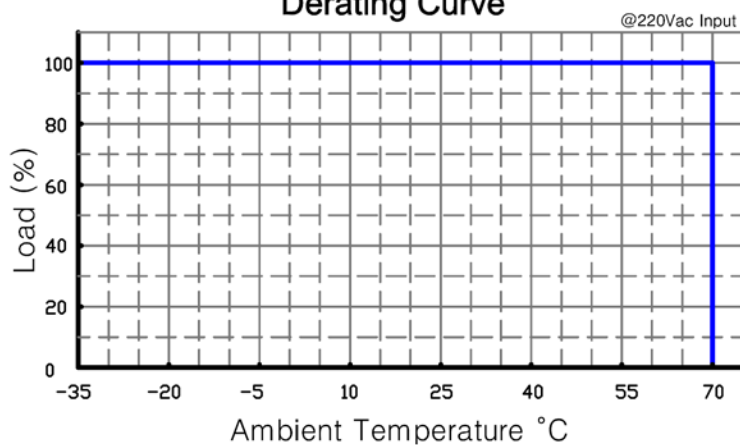
1. All specifications are typical at 25°C unless otherwise stated.
2. The “Efficiency” & “PF” values are measured at full load, after the unit is thermally stabilized, otherwise they will be lower about 1%.
3. The “Ripple & Noise” values are measured by 20MHz bandwidth oscilloscope and the output paralleled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

Mechanical Specification

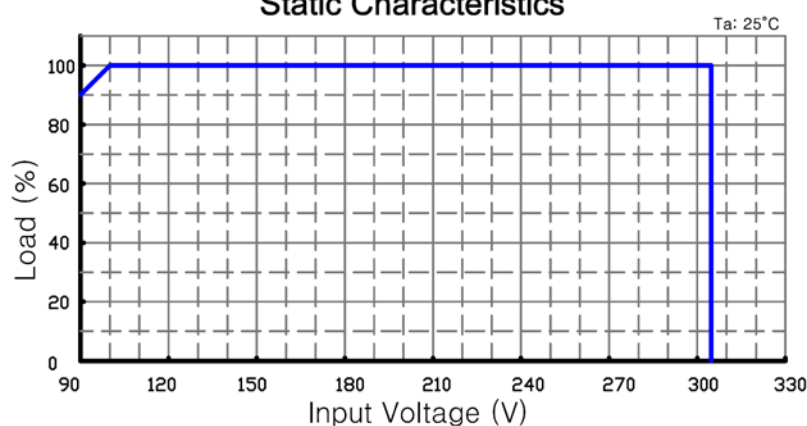


Derating Character

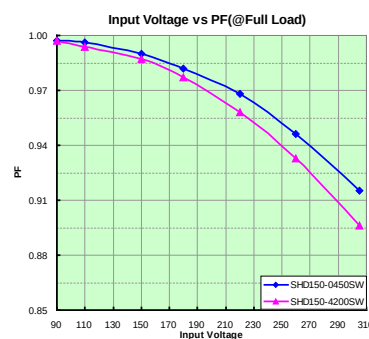
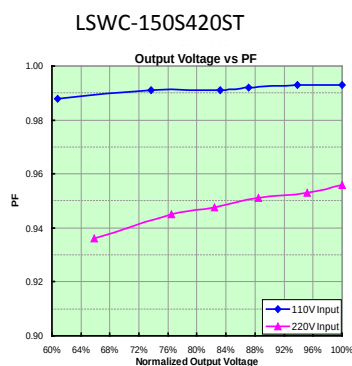
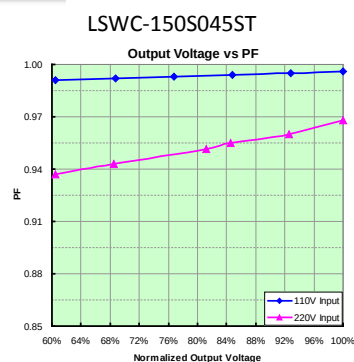
Derating Curve



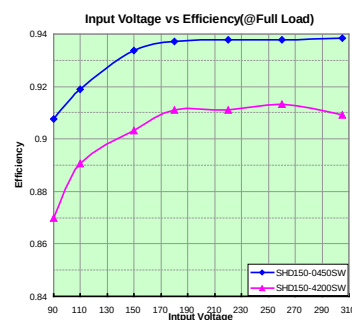
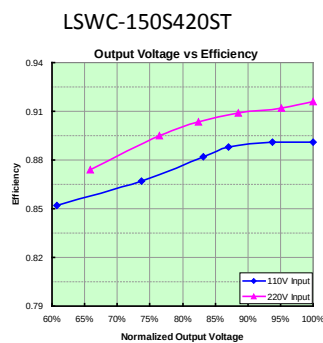
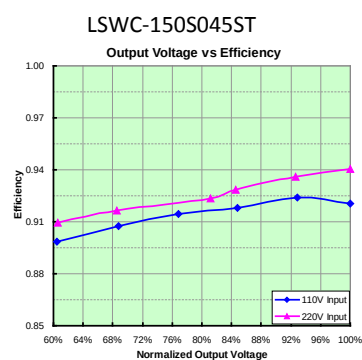
Static Characteristics



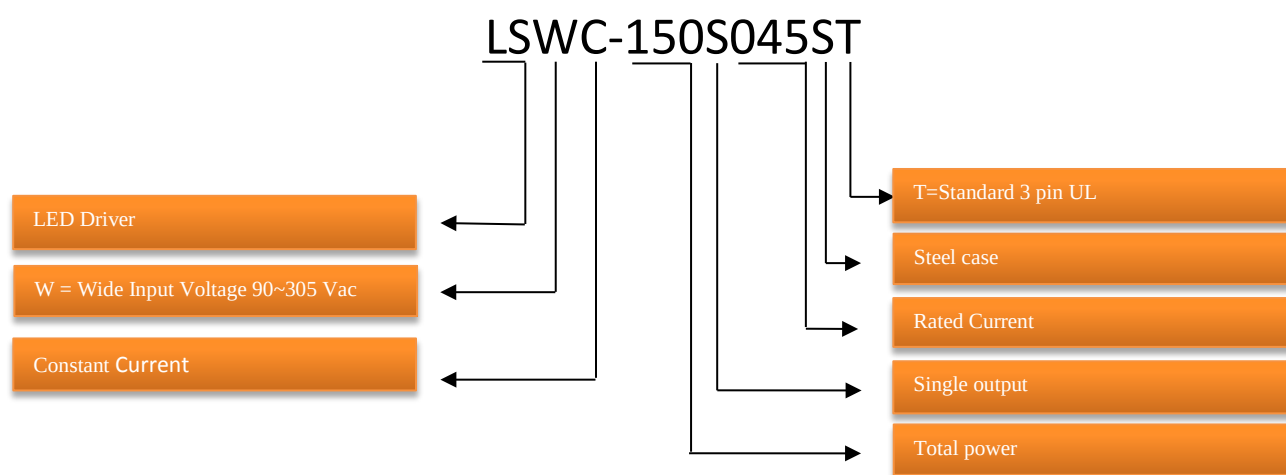
Power Factor Characters



Efficiency vs Load



PART NUMBER SCHEME



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