FEATURES

150W Constant Current LED Driver LEDHCx150 Series

- High Efficiency (Up to 91%)
- Active Power Factor Correction (0.95 Typical)
- Lighting Protection
- Short Circuit & Over Temperature Protection
- IP67
- RoHS Compliant

SPECIFICATIONS

Model # (6)	Output Current	Output Voltage Range	Typical Efficiency (1)	Output Voltage at No Load
LEDHCx150S058ST	580mA	129~257Vdc	91%	270V
LEDHCx150S070ST	700mA	107~214Vdc	91%	225V
LEDHCx150S105ST	1050mA	71~142Vdc	90%	155V
LEDHCx150S140ST	1400mA	53~107Vdc	90%	120V
LEDHCx150S210ST	2100mA	35~71Vdc	90%	85V
LEDHCx150S280ST	2800mA	27~54Vdc	90%	65V
LEDHCx150S350ST	3500mA	21~43Vdc	89%	50V
LEDHCx150S420ST	4200mA	18~36Vdc	89%	42V

Output	Max Output Power	150W	
	Ripple & Noise (2)	5%Vo	
	Line Regulation	±1%	
	Load Regulation	±3%	
	Current Range	-5%~5%	
	Overshoot/Undershoot	10% When power is recycled	
	Turn-on Delay Time	3.0sec. Measured at 277Vac Input / 3.0 Measured at 480Vac Input	
Input	Voltage Range	249~528 Vac	
	PF	0.95@277Vac / 0.90@480Vac	
	Frequency Range	47Hz~63Hz	
	Leakage Current	1 mA max. at 480Vac 60Hz Input	
	AC Current	0.7A Measured at full load and 277 Vac Input / 0.42A Measured at full load and 480 Vac Input	
	Inrush Current	50A at 480Vac Input, 25°C Cold start, duration=400 µs, 10%Ipk-10%Ipk	
Protections	Over Temperature Protection	110°C Auto-recovery. The power supply shall return to normal operation only after the temperature returns to normal.	
	Short Circuit Protection	No damage shall occur when any output operation in a short circuit condition.	
Environment	Temperature Range	Operational	-35°C~+65°C
		Storage	-40°~85°C
	Humidity	Operational	10% RH to 100% RH See derating Curve for more details
		Storage	5% RH to 100% RH
Safety & EMC	Safety Standards	UL8750, UL1012, CAN/CSA-C22.2 No. 223-M91, CSA-C22.2 No. 107.1-01 EN61347-1, EN61347-2-13	
	EMI Standards	EN 55015 FCC Part15 ANSI C63.4:2009 Class B	
	EMS Standards	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5 EN61000-4-6, EN61000-4-8, EN61000-4-11	
Others	MTBF	259,800 hours Measured at 480Vac Input, 80% Load and 25°C ambient temperature (MIL-HDBK-217F)	
	Life Time	140,000 hours Measured at 480Vac Input, 80% load: Case temperature=60°C @ Tc point. See life time vs. Tc curve for the details	
	Dimensions	(L*W*H) 7.40*3.70*1.71 inches 188*93.9*43.5 mm	
	Weight	1300g	

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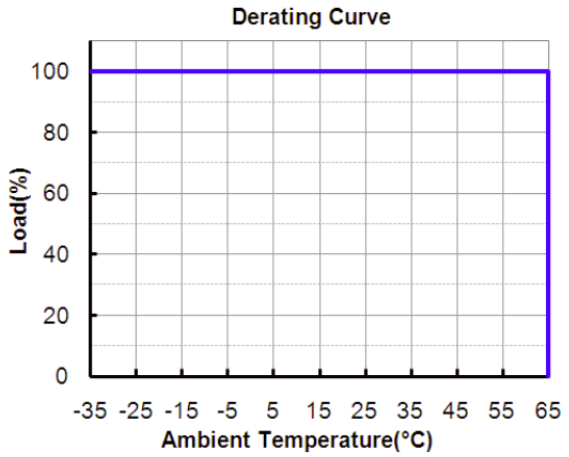
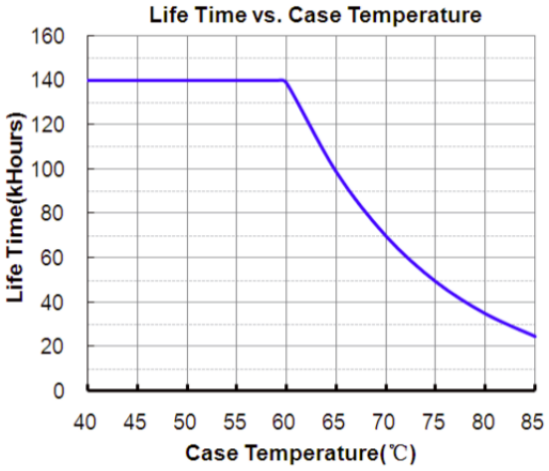
NOTES:

1. Measured at full load, 277 VAC input.
2. Ripple & noise are measured at 20MHz of bandwidth oscilloscope and the output paralleled a 0.1uf ceramic capacitor & 10 uf electrolytic capacitor.
3. For 700mA output model, measured at 110VAC input, 80%load and 25℃ of ambient temperature.
4. For 700mA output model, measured at 110VAC input, 80%load and 45℃ of ambient temperature.
5. All parameters NOT specially mentioned are measured at 480VAC input, rated load and 25℃ of ambient temperature.
6. A suffix -XXXX may be added to denote variation or modifications to the base product, were X can be any alphanumeric character or blank
7. Non-Class 2 output (USR & CNR).
8. Class 2 output (USR), Non-Class 2 output (CNR).
9. Class 2 output (USR & CNR).
10. Specifications are subject to change without notice. AUTEC can't be held liable for errors or omissions or the consequences thereof.

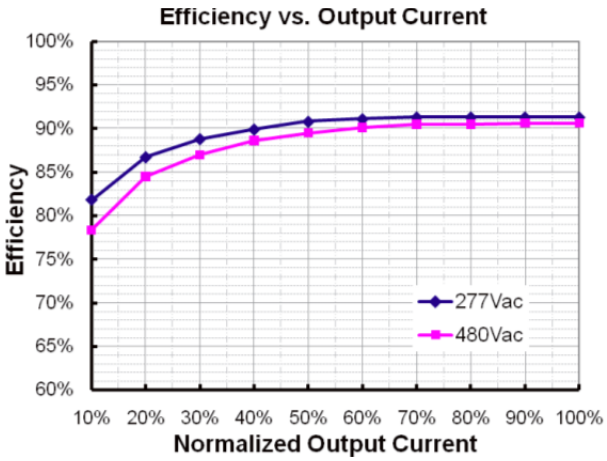
Derating Curve

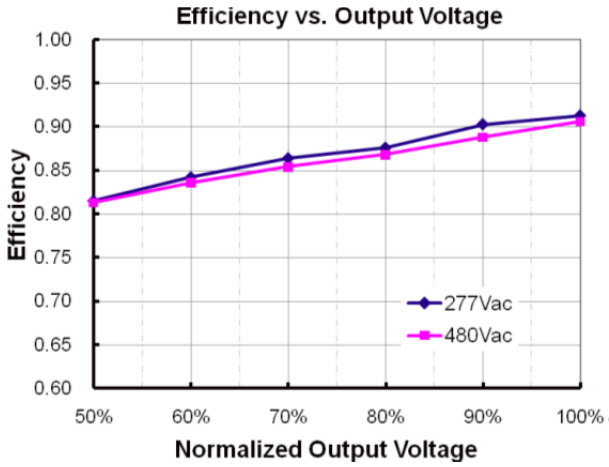


Life Time vs. Case Temperature Curve

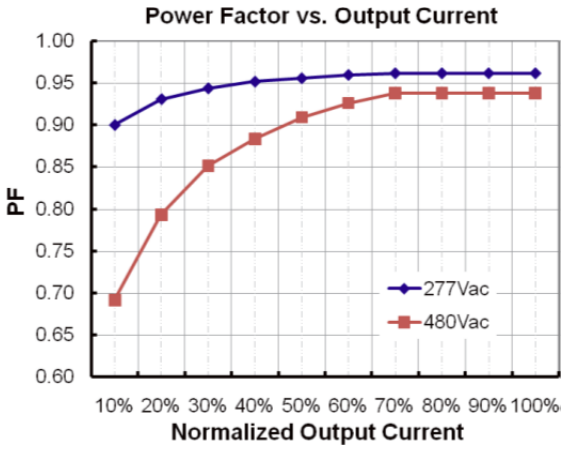


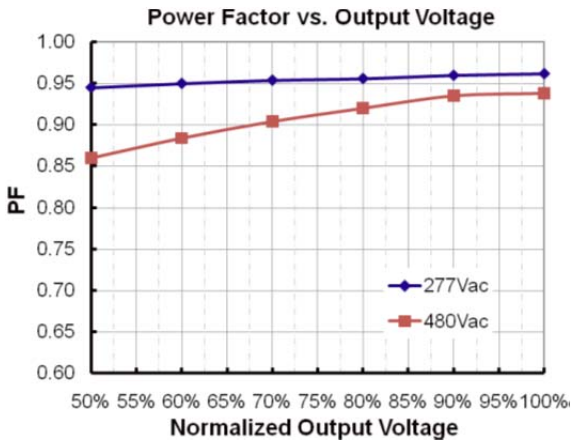
Efficiency vs Load (580mA Model)





Power Factor Characteristics



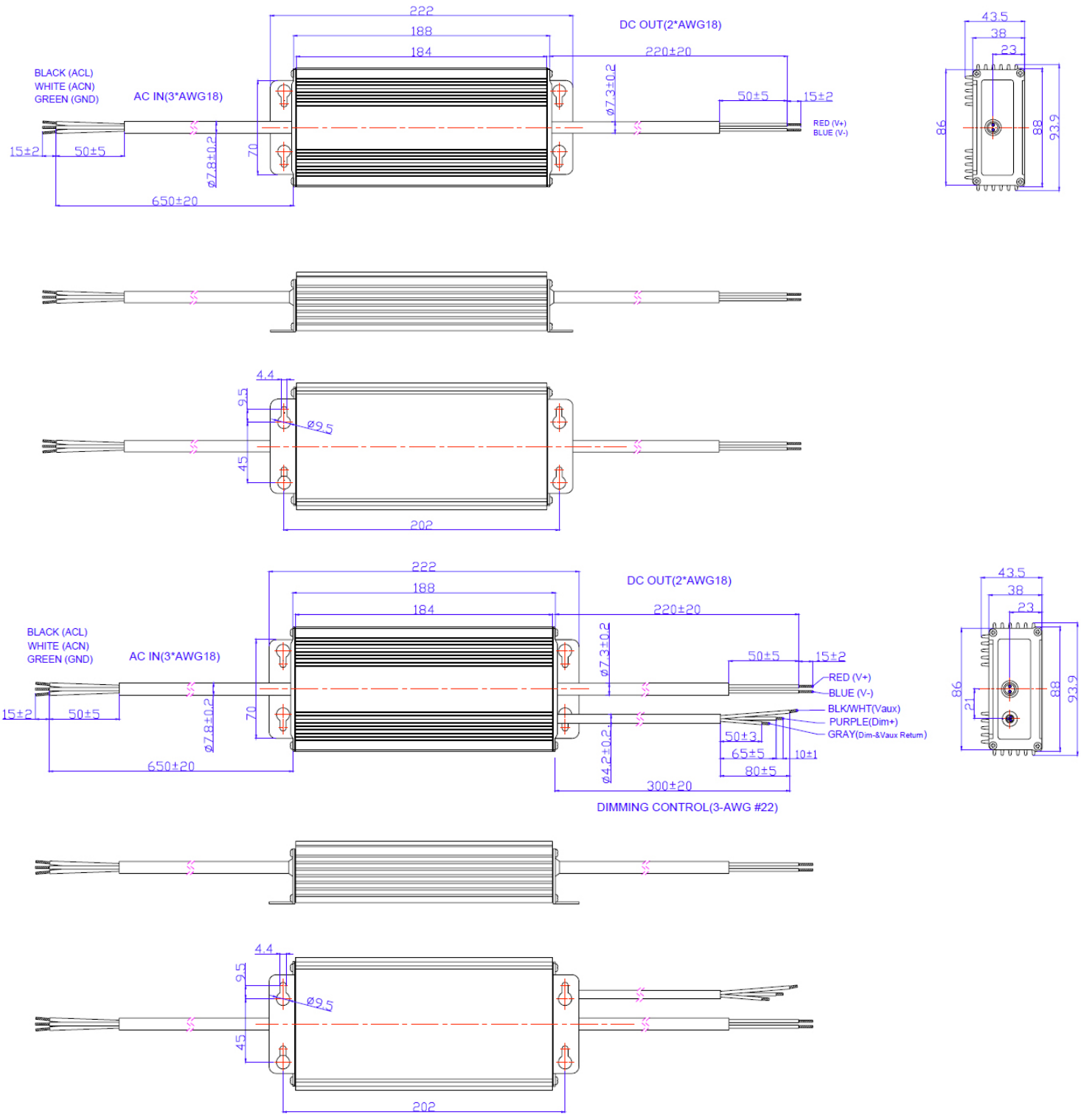


Dimming Control (On secondary side)

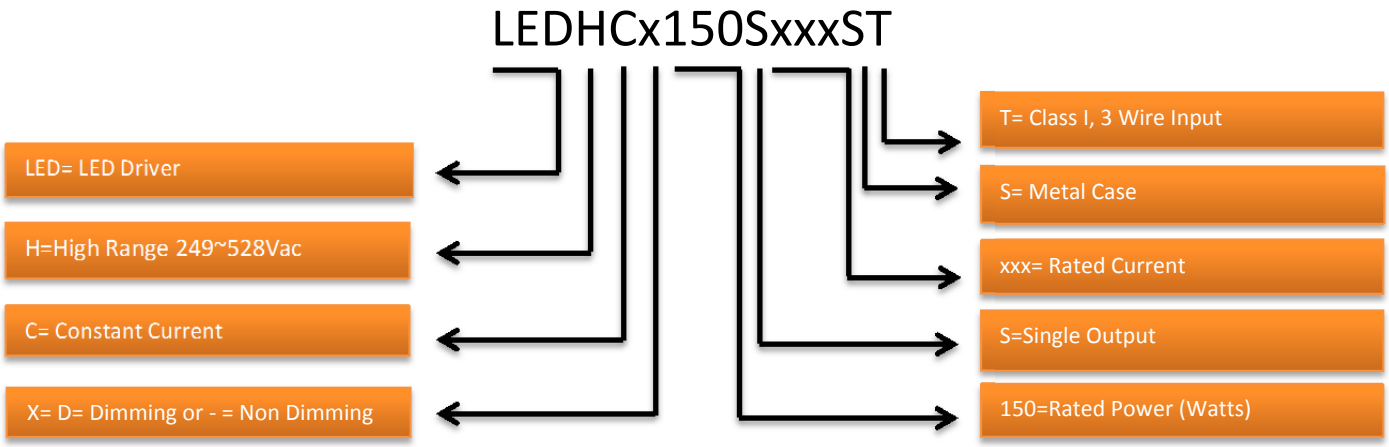
Parameter	Min.	Typ.	Max.	Notes
12V output voltage	10.8V	12V	13.2V	
12V output source current	0mA	-	20 mA	
Absolute max. voltage on the 0~10V input pin	-2V	-	15V	
Source current on 0~10V input pin	-	200uA	-	

The dimmer control is operated from an input signal of 1-10 Vdc. Recommended implementations are provided below.

Mechanical Drawing



PART UMBER SCHEME



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