

FEATURES

Ultra High Efficiency (Up to 93.5%)

0-10V Dimming

Wide Range Input Voltage (90-305VAC)

Active Power Factor Correction (Up to 0.99)

Waterproof (IP67)

Lightning Protection

Over Voltage, Over Temp. & Short Circuit Protection

UL8750 & EN61347 Safety Regulations

Very High MTBF & Life Time

RoHS Compliant

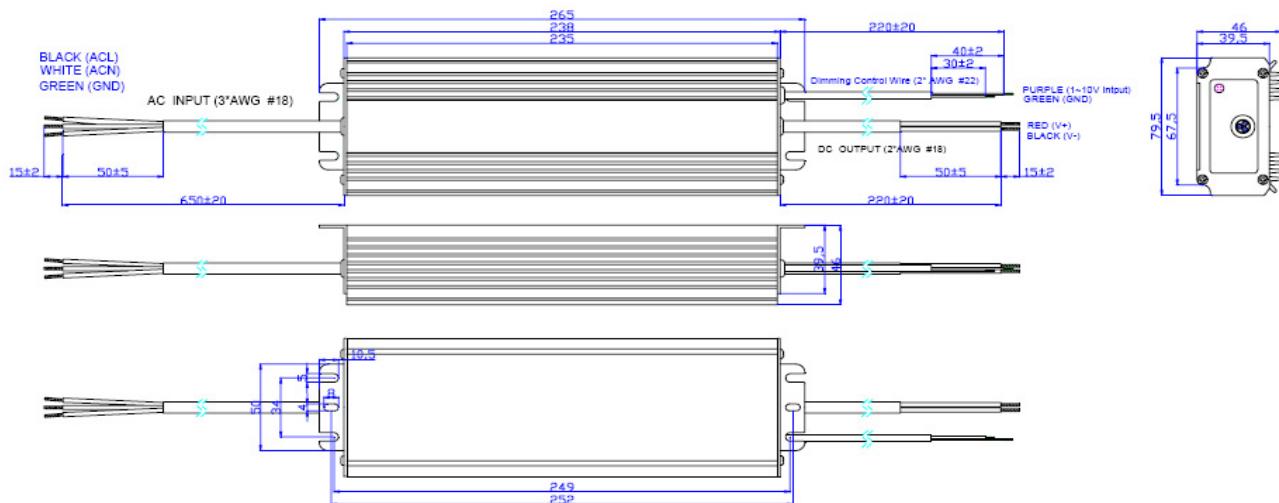
150W Constant Current Dimming LED Driver LEDWCD150 series



SPECIFICATION

	Model	LEDWCD150S035ST	LEDWCD150S045ST	LEDWCD150S070ST	LEDWCD150S105ST	LEDWCD150S140ST	
Output	Rated Current (1)	350mA	450mA	700mA	1050mA	1400mA	
	Current (Min/Max) mA	332 - 368	427 - 473	665 - 735	997 - 1102	1330 - 1470	
	Rated Power	150W	150W	150W	150W	150W	
	Ripple & Noise (max.) (2)	3% V _d Pk -Pk					
	Max. Voltage (No Load/Typ)	447 Vdc	348Vdc	223 Vdc	149 Vdc	113 Vdc	
	Voltage Range (Min - Max)	214 - 428VDC	166-333VDC	107-214VDC	71-142VDC	53-107VDC	
	Line Regulation (Max)	1%					
	Load Regulation (Max)	3%					
	Setup, Rise Time (Typ)	1.0 S					
Input	Voltage Range	90V ~ 305VAC					
	Frequency Range	47Hz / 63Hz					
	Power Factor Correction	0.99 @ 100VAC and 0.96 @ 220 VAC					
	Efficiency (Typ.) at 230Vac	93.5%	93.0%	93.0%	93.0%	92.5%	
	Inrush Current	65A @ 230VAC Input and 25°C Cold Start					
Protections	AC Current (Typ.)	1.8 A / 100VAC 0.9A / 220VAC					
	Short Circuit Protection	Hiccup mode, recovers automatically after fault condition is removed					
	Over Temperature Protection	110°C (Internal Typ. Temp) Latch mode. AC must be recycled after temp reduction					
Environmental	Temperature Range	578V	450V	289V	192V	144V	
		Latching - AC must be recycled					
	Humidity	Operational	- 35°C ~ 70°C (See derating curve)				
		Storage	- 40 ~ +85°C				
Safety & EMC	Safety Standards	Operational	10 ~ 100% RH				
		Storage	5 ~100% R.H				
	Withstand Voltage	I/P - O/P: 3KVAC (4242 DC) I/P - FG: 1.5KVAC (2121 DC) O/P-FG: 0.5KVAC (707 DC), 1 minute					
		EN55015 with 6db margin min					
	EMI Cond. & Rad.	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, EN 61547					
Others	MTBF (3)	342K hours MIL-HDBK-217F					
	Life Time (4)	88k hours for 350mA model, 58k hours 1400mA model					
	Dimension (L*W*H)	238*79.5*46.0 (mm) / 9.37*3.13*1.81 (inch)					
	Weight	1500 g					
	Leakage Current	0.75mA (277VAC/50Hz)					

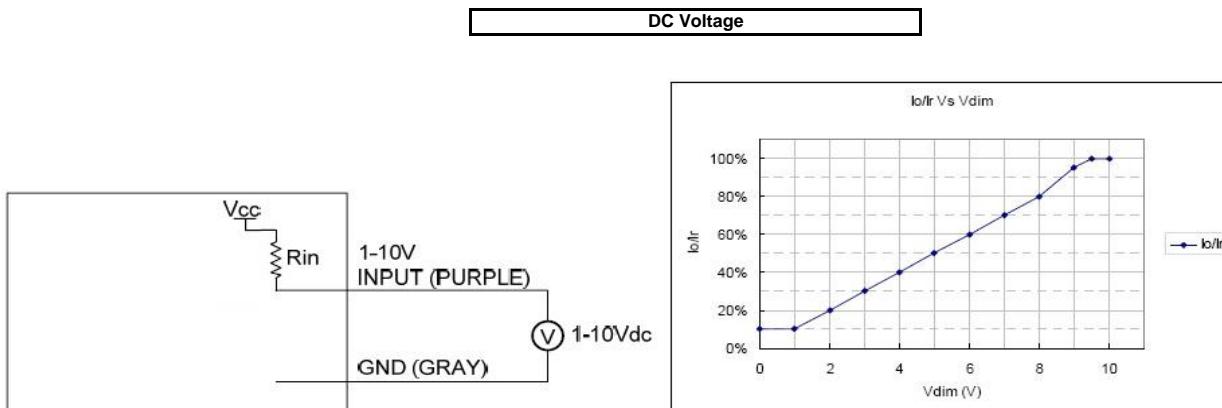
■ Mechanical Specification

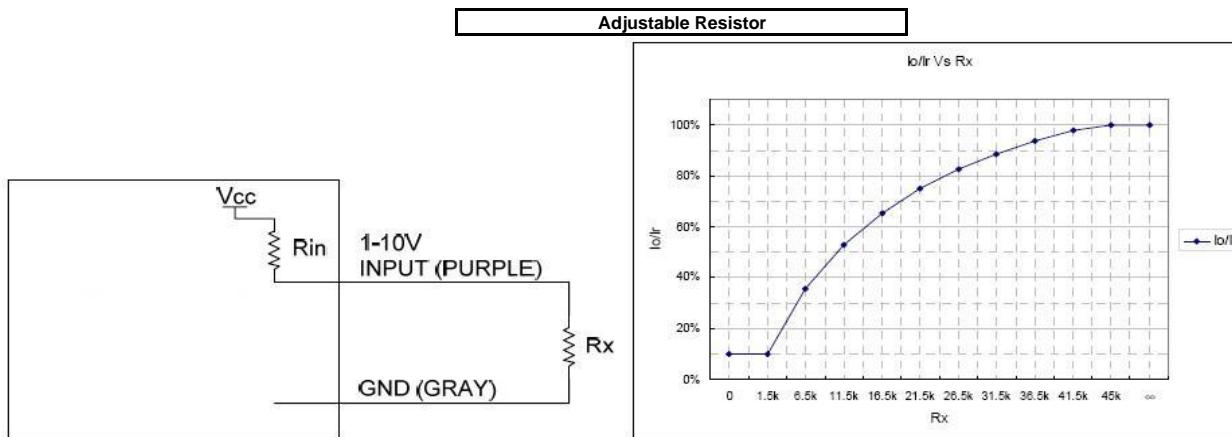


■ Efficiency

Model	LEDWCD150S035ST	LEDWCD150S045ST	LEDWCD150S070ST	LEDWCD150S105ST	LEDWCD150S140ST
Eff. @ Full Load and 115VAC (min)	90.5%	90.0%	90.0%	90.0%	89.5%
Eff. @ Full Load and 115VAC (typ)	91.5%	91.0%	91.0%	91.0%	90.5%
Eff. @ Full Load and 230VAC (min)	92.5%	92.0%	92.0%	92.0%	91.5%
Eff. @ Full Load and 230VAC (typ)	93.5%	93.0%	93.0%	93.0%	92.5%

■ Suggested Dimming Options

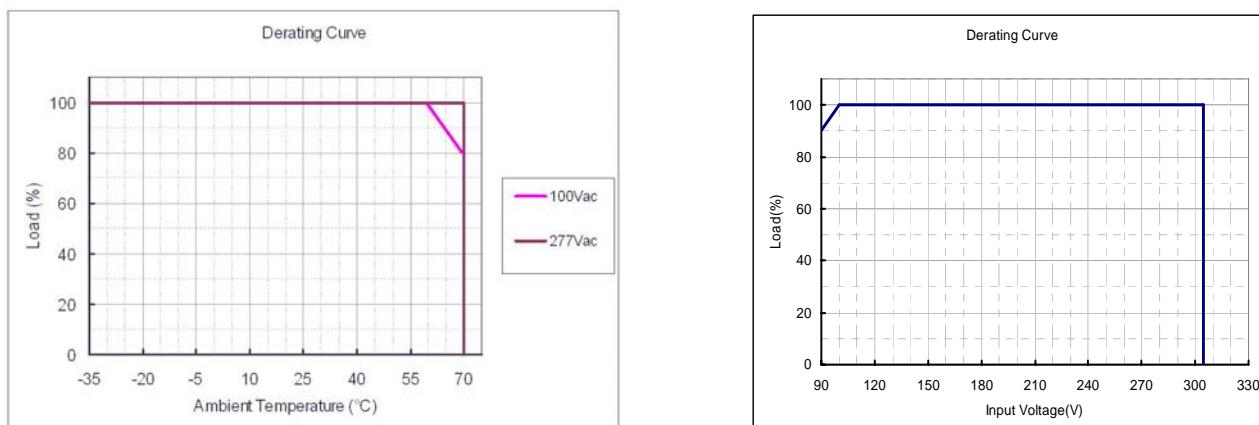




1. Io is actual output current and Ir is rated current without dimming control.
2. If the output voltage is maintained above 50% of the maximum output voltage, the dimming control may be operated over the entire 1-10V range with output current varying from 100% down to approx 10%.
3. The internal resistor Rin is 20K, and Vcc is about 15V.

Dimming Circuit Parameter	Min.	Max.
Absolute maximum voltage on the 1-10V input pin	-2 V	12 V
Source current on 1~10V input pin	0 mA	1 mA

■ Derating Curves



NOTES:

1. Measured at full load, 220VAC input and 25 °C ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth oscilloscope and the output paralleled a 0.1uf ceramic capacitor & 10 uf electrolytic capacitor.
3. Measured at 110VAC input, 80% load and 25 °C ambient temperature.MIL-HDBK-217F
4. Measured at 220VAC input, 80%load and 45 °C ambient temperature.
5. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25 °C ambient temperature.
6. Specifications are subject to change without notice. AUTEC cannot be held liable for errors or omissions or the consequences thereof.