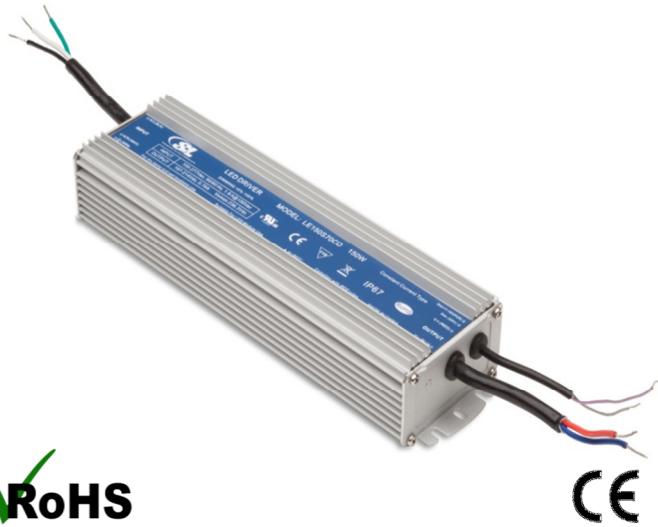


### Features

- High Efficiency (up to 93%)
- Wide Range Universal Input 90-305 VAC
- Active Power Factor Correction (0.99 typical)
- Constant Current Output
- Dimming Function
- Lightning Protection
- Waterproof (IP67)
- Overcurrent, Overvoltage, Overtemperature Protection
- Meets UL8750 & EN61347 Safety
- 3 Year Warranty



### Description

The LE150S-CD Series operate from a 90 ~ 305Vac input range. These units will provide up to a 1.4 A of output current and a maximum output voltage of 214Vdc for 150 W maximum output power. They are designed to be highly efficient and highly reliable. The standard features include dimming control, lightning protection, over voltage protection, short circuit protection, and over temperature protection.

### Model Selection

Model Number	Output Current	Output Voltage	Efficiency*		Ripple & Noise**	Regulation		Overvoltage Trip Level
			110Vac	220Vac		Line	Load	
LE150S140CD	1330mA-1470mA	53V – 107V	89%-90%	91%-92%	3.2V pk-pk max.	±1%	±3%	128V – 161V
LE150S70CD	665mA-735mA	107V – 214V	90%-91%	92%-93%	6.5V pk-pk max.	±1%	±3%	257V – 321V

Notes: 1. Efficiency measured at full load, at input voltage noted.  
2. Measured at 20MHz bandwidth, with noise probe directly across output terminals, and load terminated with 0.1µF ceramic and 10µF low ESR electrolytic capacitors.

### General Specifications

<b>AC Input</b>	90-305Vac, 47-63Hz, 1Ø	<b>Turn On Time</b>	2.0 seconds, max.
<b>Input Current</b>	100Vac: 1.8A, 220Vac: 0.9A	<b>Dimming Function</b>	1-10Vdc source or External Resistor can be used for dimming control. See below.
<b>Inrush Current</b>	230Vac, cold start: will not exceed 65A	<b>Overload Protection</b>	Constant Current
<b>Input Fuses</b>	XA, 250VAC fuses provided on all models	<b>Short Circuit Protection</b>	Provided - no damage to unit, self-recovery.
<b>Earth Leakage Current</b>	<0.75mA@277Vac, 50Hz	<b>Overvoltage Protection</b>	Latch mode. AC input will need to be reset to return to normal operation after an OVP condition. See chart for trip range.
<b>Efficiency</b>	See Models chart.	<b>Overtemperature Protection</b>	Latch mode. AC input will need to be reset To return to normal operation after an OTP condition. Trip Temperature = 110°C typical.
<b>Output Power</b>	150W continuous		

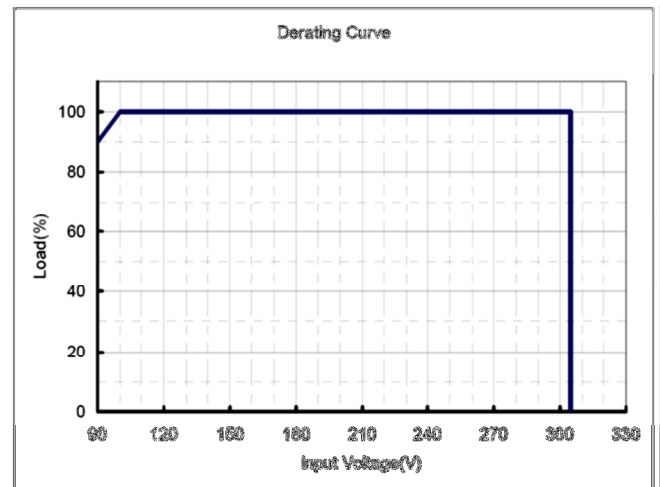
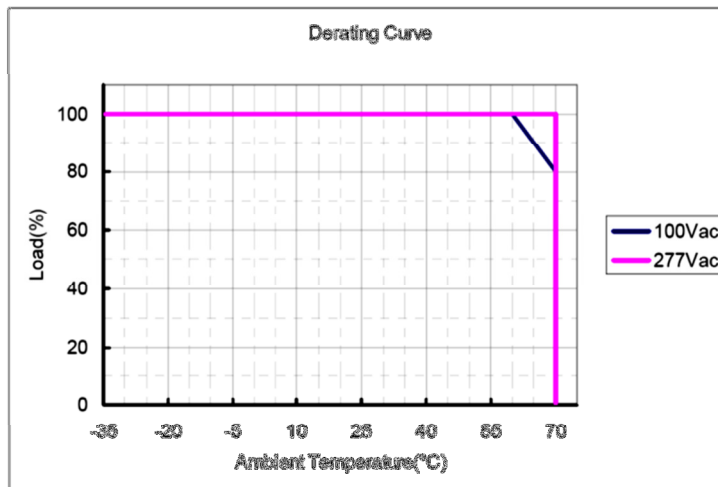
## General Specifications (continued)

<b>Ripple and Noise</b>	See chart	<b>Operating Temperature</b>	Operating: -35°C to +70°C Non-operating: -40°C to +85°C
<b>Output Voltage</b>	See chart	<b>Relative Humidity</b>	10% to 100% operating 5% to 100%, non-operating
<b>Total Regulation</b>	+/- 3%. See chart	<b>Safety Standards</b>	UL8750, UL935, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
<b>Dimensions</b>	W: 3.13" x L: 9.37" x H: 1.81"	<b>MTBF</b>	340,000 hours (1400mA model, 110Vac input, 80% load, 25°C ambient, per MIL-HDBK-217F).
<b>Weight</b>	1500g	<b>Lifetime</b>	58,000 hours (1400mA model, at 110Vac input, 80% load, 45°C ambient temperature).

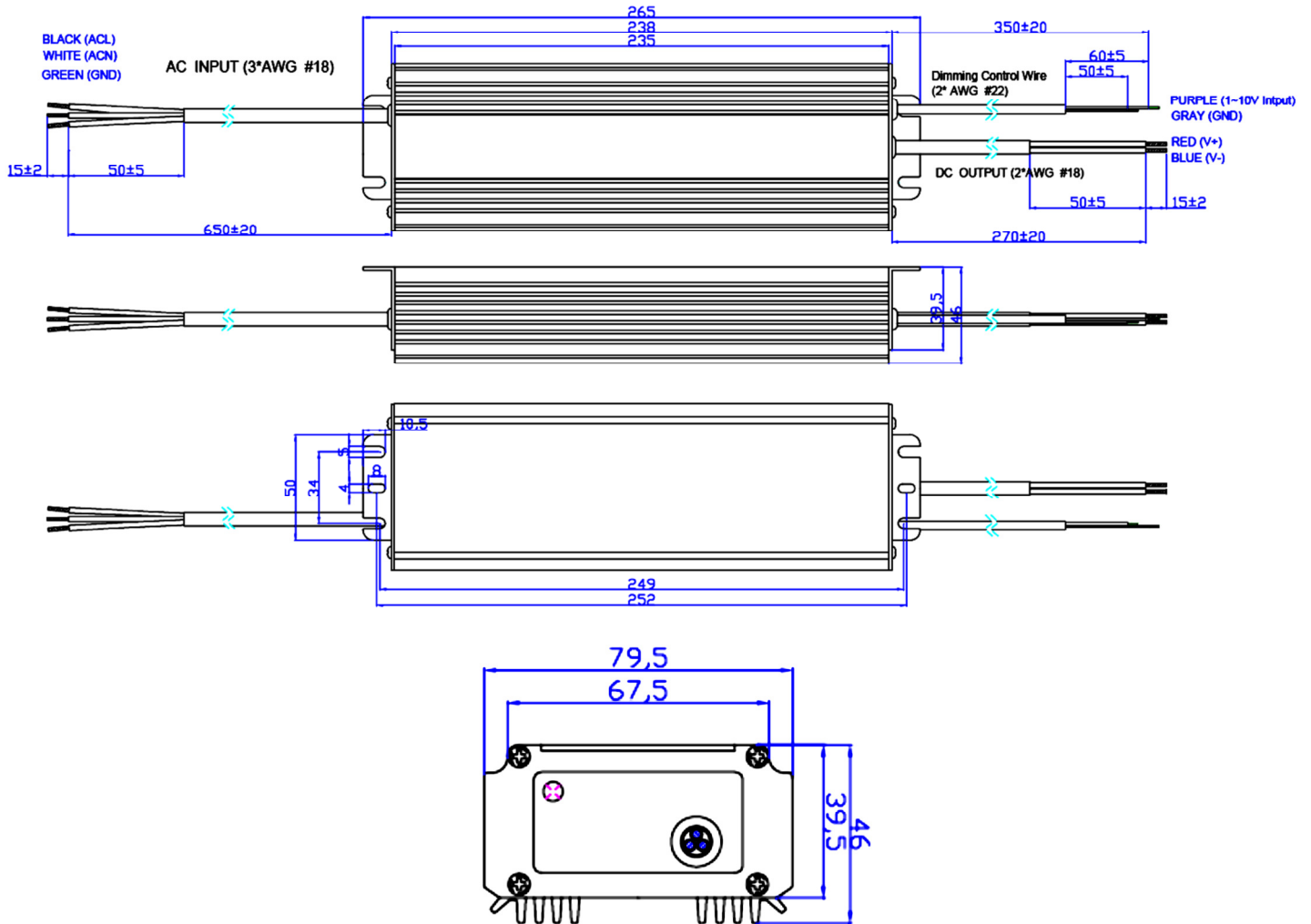
## EMI/EMC Compliance

<b>Emissions</b>	EN55015, Radiated & Conducted with 6db of margin
<b>EMI for Lighting Equipment</b>	EN61547
<b>Static Discharge Immunity</b>	EN61000-4-2, 4kV Contact Discharge, 8kV air discharge
<b>Radiated RF Immunity</b>	EN61000-4-3
<b>EFT/Burst Immunity</b>	EN61000-4-4
<b>Line Surge Immunity</b>	EN61000-4-5, 2kV line-line, 4kV line-earth
<b>Conducted RF Immunity</b>	EN61000-4-6
<b>Power Frequency Magnetic Field Immunity</b>	EN61000-4-8
<b>Voltage Dip Immunity</b>	EN61000-4-11
<b>Line Harmonic Emissions</b>	EN61000-3-2
<b>Flicker Test</b>	EN61000-3-3

## Derating Curves



## Mechanical Drawing



## Dimming Control

The dimming function shown below uses an internal pull-up resistor, with the output at full load when the dimming leads are not connected (floated).

Parameters:

Parameter	Min.	Typ.	Max.	Notes
10V Output Voltage	9.8V	10V	10.2V	
10V Output Source Current	0mA	-	10mA	
Absolute Max. Voltage on the 1-10V input	-2V	-	12V	
Source Current on the 1-10V input	0mA	-	1mA	
Value of Rin (resistor inside the LED Driver, which is located between the 1-10V input and 10V output)	19.8K	20K	20.2K	

