



### Features

- High Efficiency (up to 91%)
- 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
- Compliant to ANSI/IEEE C62.41, Class A
- 3 Year Warranty



### Description

The LE75S-CD Series are constant current mode LED Driver power supplies that operate from a wide range input of 90 to 305Vac. These models provide up to 2.8A of output current, at a maximum output voltage of 108Vdc, at up to 75W output power. The LE75S-CD series are highly efficient and highly reliable. Features include dimming control, overvoltage protection, short circuit protection, and overtemperature protection.

### Model Selection

Model Number	Output Current	Output Voltage	Efficiency*		Ripple & Noise**	Regulation		Overvoltage Trip Level
			110Vac	220Vac		Line	Load	
LE75S28CD	2660mA-2940mA	13V – 27V	85%-87%	87%-89%	5% of Vo pk-pk	±1%	±3%	35V – 38V
LE75S140CD	1330mA-1470mA	27V – 54V	86%-88%	88%-90%	5% of Vo pk-pk	±1%	±3%	65V – 70V
LE75S70CD	665mA-735mA	54V – 108V	87%-89%	89%-91%	5% of Vo pk-pk	±1%	±3%	118V – 130V

- Notes:
1. Efficiency measured at full load, at input voltage noted. Efficiency will be 2% lower if measured immediately after start-up.
  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.
  3. LE75S070CD: Non-Class 2 output (USR & CNR)
  4. LE75S140CD: Class 2 output (USR), Non-Class 2 output (CNR)
  5. LE75S280CD: Class 2 output (USR & CNR)

### General Specifications

<b>AC Input</b>	90-305Vac, 47-63Hz, 1Ø 120–370Vdc	<b>Turn On Time</b>	110Vac: 0.8s – 1.2s 220Vac: 0.4s – 0.6s
<b>Input Current</b>	100Vac: 0.9A, 220Vac: 0.42A	<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 50A		

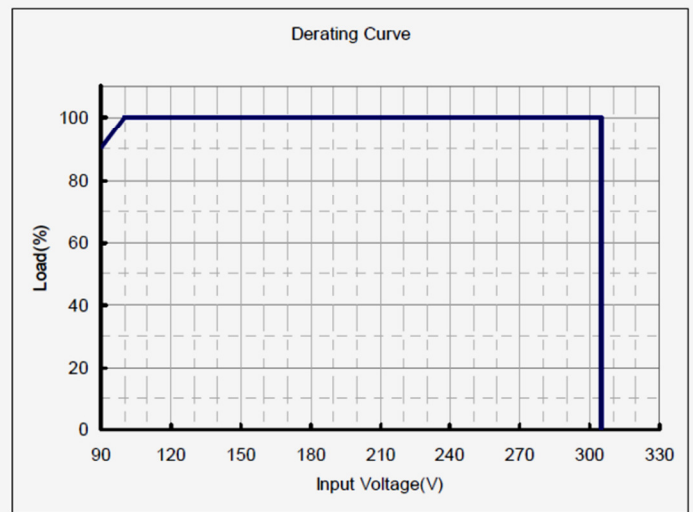
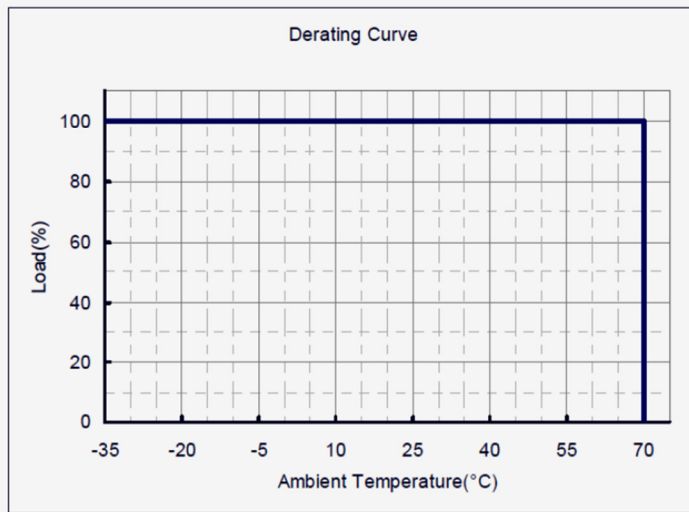
**General Specifications** (continued)

<b>Input Fuses</b>	XA, 250VAC fuses provided on all models	<b>Overload Protection</b>	Constant Current
<b>Earth Leakage Current</b>	<1mA@277Vac, 50Hz	<b>Short Circuit Protection</b>	Provided - no damage to unit, self-recovery.
<b>Efficiency</b>	See Models chart.	<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>Output Power</b>	75W continuous	<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>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 95% operating 5% to 100%, non-operating
<b>Total Regulation</b>	+/- 3%. See chart	<b>Safety Standards</b>	UL8750, UL935, UL1012, UL1310 Class 2; CSA-C22.2 No. 107.1, CSA C22.2 No. 223-M91 Class 2; EN61347-1, EN61347-2-13
<b>Dimensions</b>	W: 2.66" x L: 5.91" x H: 1.46"	<b>MTBF</b>	450,000 hours (2800mA model, at 110Vac input, 80% load, 25°C ambient, per MIL-HDBK-217F).
<b>Weight</b>	750g	<b>Lifetime</b>	65,000 hours (2800mA model, at 110Vac input, 80% load, 45°C ambient temperature.

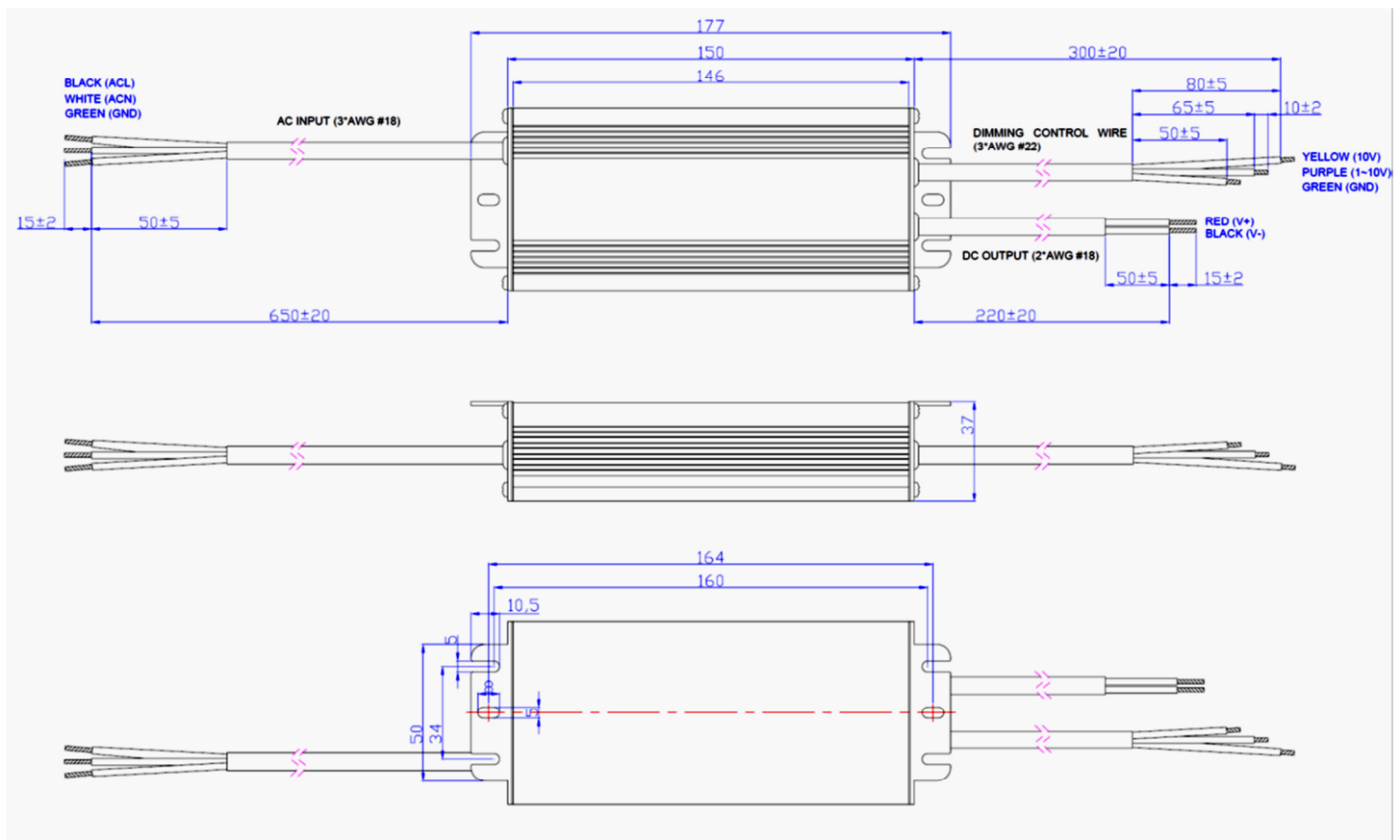
**EMI/EMC Compliance**

<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
<b>Transient Protection</b>	ANSI/IEEE C62.41-1991: Class A operation. Line transient of 7 strikes of a 100kHz ring wave, 2.5kV level, common and differential mode.

## Derating Curves



## Mechanical Drawing



## Dimming Control