



LED

### FEATURES AND BENEFITS

High Efficiency (up to 94%)

Wide Range Universal Input 90-305 VAC

Active Power Factor Correction (0.99 typical)

Constant Voltage Output

Lightning Protection

Waterproof (IP67)

Overcurrent, Overvoltage, Overtemperature Protection

Meets UL8750 & EN61347 Safety

Minimum of 3 Year Warranty, Consult factory for 5 Years



### MODEL SELECTION

Model Number	Output Current	Output Voltage	Efficiency*		Ripple & Noise**	Regulation		Overvoltage Trip Level
			110Vac	220Vac		Line	Load	
LE300S28VN	0 – 10.71A	28Vdc	91%-92%	93%-94%	2% of Vo pk-pk	±1%	±3%	32V - 36V
LE300S48VN	0 – 6.25A	48Vdc	91%-92%	93%-94%	2% of Vo pk-pk	±1%	±3%	52V - 61V

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.

### INPUT

AC Input	90-305Vac, 47-63Hz, 1Ø
Input Current	100Vac: 3.3A, 220Vac: 1.6A
Inrush Current	230Vac, cold start: will not exceed 50A
Input Fuses	XA, 250VAC fuses provided on all models
Earth Leakage Current	<0.75mA@277Vac, 50Hz
Efficiency	See models chart

### OUTPUT

Output Voltage	See models chart on pg 1
Output Power	300W continuous
Turn On Time	2.0 seconds, max.
Hold-up Time	20 mSec
Ripple and Noise	See models chart on pg 1
Total Regulation	+/- 3%. See chart
Dimming Function	N/A

### PROTECTION

Overvoltage Protection	Latch mode. AC input will need to be reset to return to normal operation after an OVP condition. See chart for trip range
Short Circuit Protection	Provided - no damage to unit, self-recovery
Overtemperature Protection	Latch mode. AC input will need to be reset to return to normal operation after an OTP condition. Trip Temperature = 110°C typical
Overload Protection	110%-180% of Io rated, Hiccup Mode



### RELIABILITY

MTBF	296,000 hours (110Vac input, 80% load, 25°C ambient, per MIL-HDBK-217F)
Lifetime	156,000 hours (220Vac input, 80% load, 45°C ambient temperature)

### SAFETY

Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
------------------	---

### ENVIRONMENT

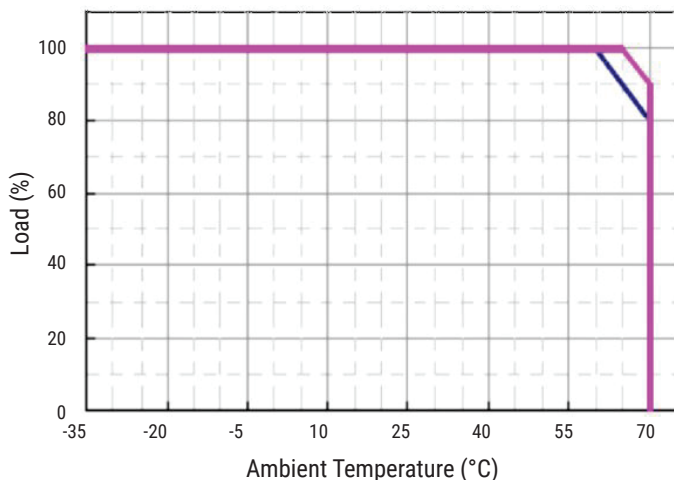
Operating Temperature	Operating: -35°C to +70°C Non-operating: -40°C to +85°C
Relative Humidity	10% to 100% operating, 5% to 100%, non-operating
Weight	1500g
Dimensions	W: 3.13" x L: 9.37" x H: 1.81"

### EMI/EMC COMPLIANCE

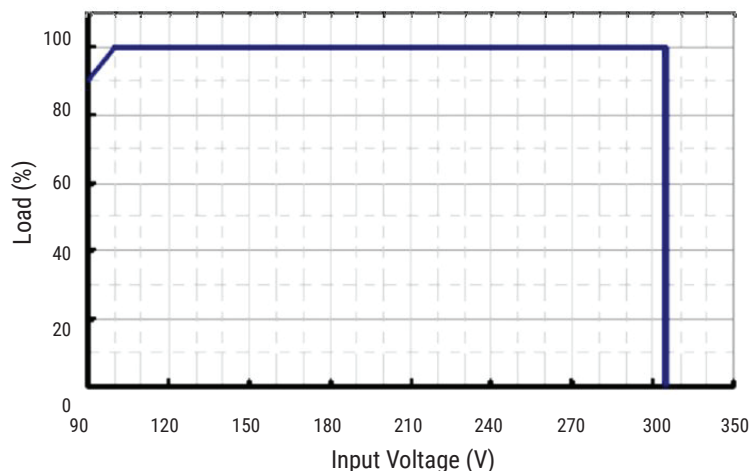
Emissions	EN55015, Radiated & Conducted
EMI for Lighting Equipment	EN61547
Static Discharge Immunity	EN61000-4-2, 4kV Contact Discharge, 8kV air discharge
Radiated RF Immunity	EN61000-4-3
EFT/Burst Immunity	EN61000-4-4
Line Surge Immunity	EN61000-4-5, 2kV line-line, 4kV line-earth
Conducted RF Immunity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

### DERATING CURVES

Derating Curve



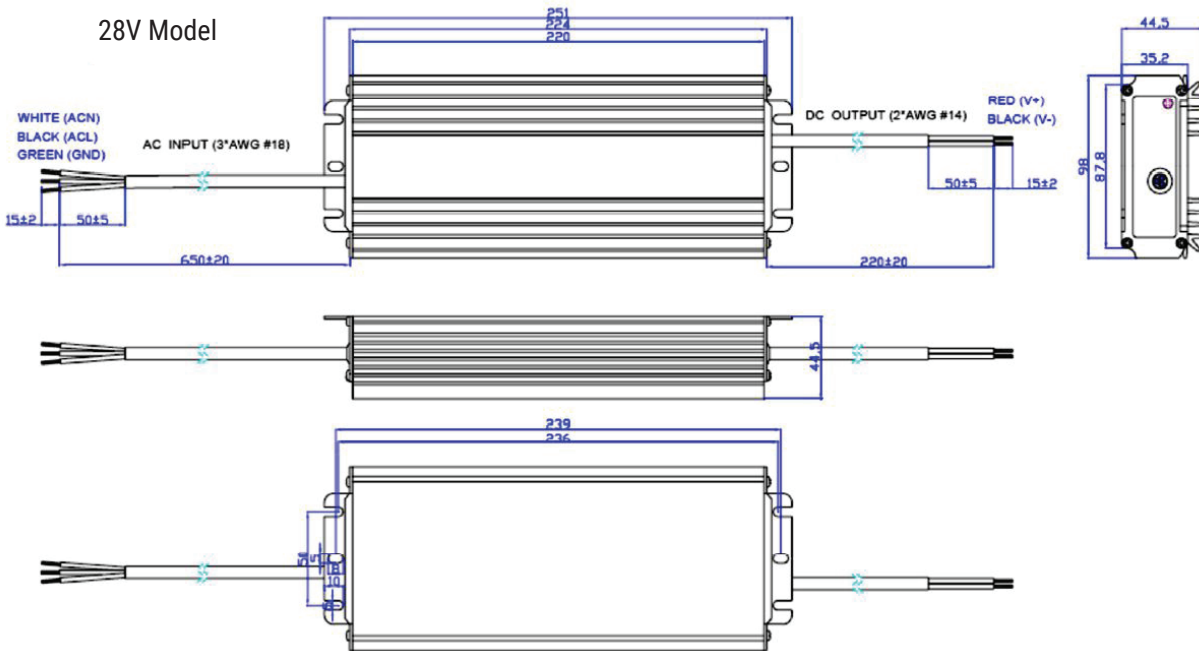
Derating Curve



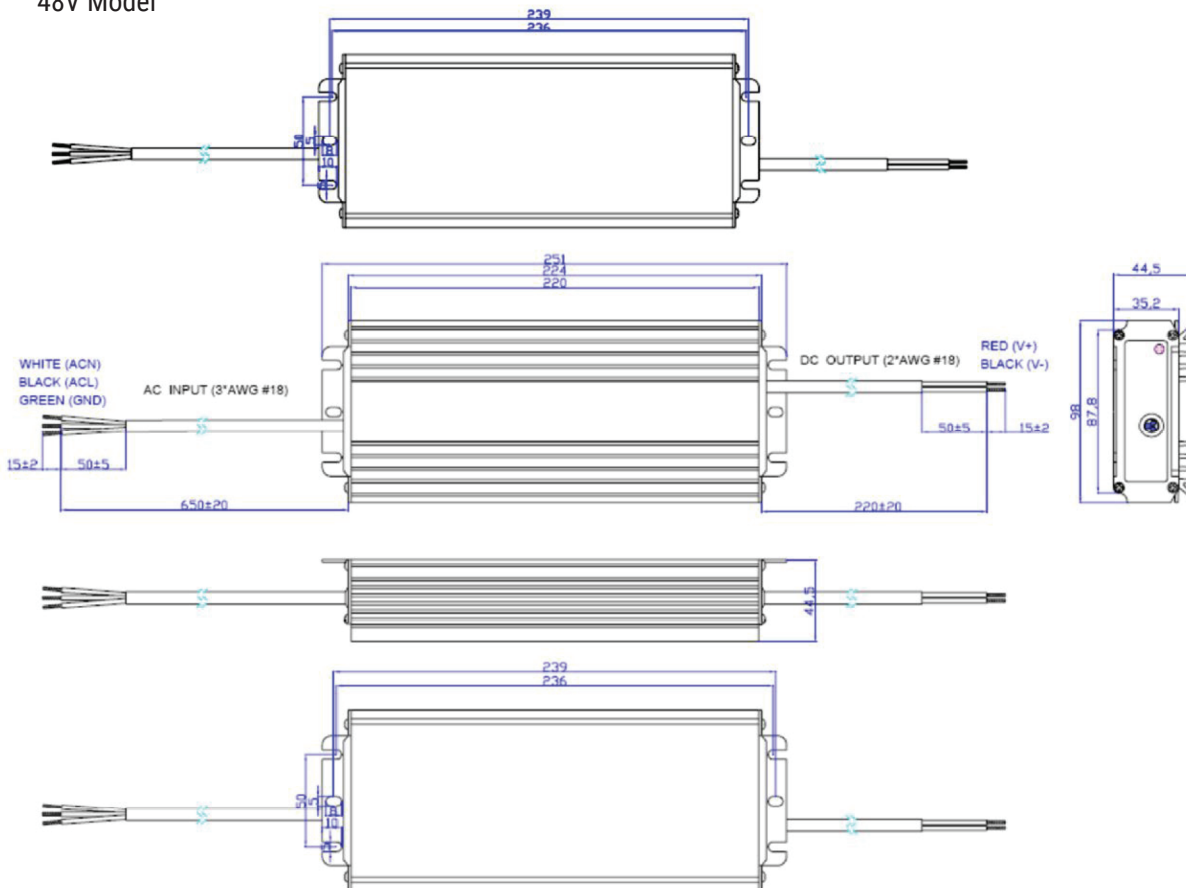


## MECHANICAL DRAWING

28V Model



48V Model



Disclaimer : The information and specifications contained herein are believed to be correct at the time of publication. However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.