



Features

- 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

 **RoHS**



Description

The LE300S-VN Series operate from a 90 ~ 305Vac input range. These units will provide up to 300W of output power. They are designed to be highly efficient and highly reliable. The standard features include lightning protection, overvoltage 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	
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.

General Specifications

AC Input	90-305Vac, 47-63Hz, 1Ø	Turn On Time	0.2 seconds, max.
Input Current	100Vac: 3..3A, 220Vac: 1.6A	Hold-up Time	20 mSec
Inrush Current	230Vac, cold start: will not exceed 50A	Dimming Function	N/A
Input Fuses	XA, 250VAC fuses provided on all models	Overload Protection	110%-180% of Io rated, Hiccup Mode

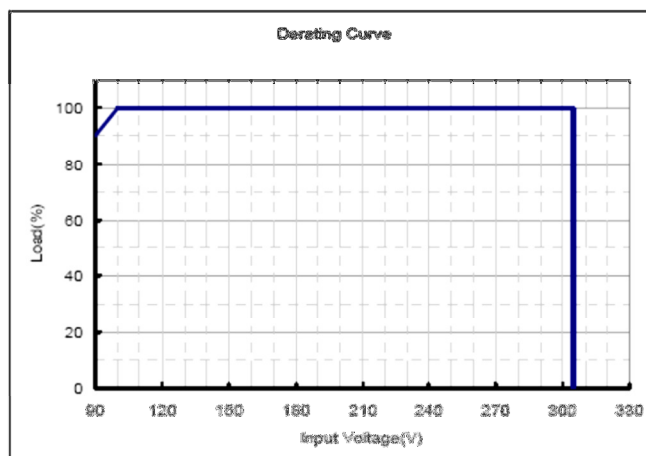
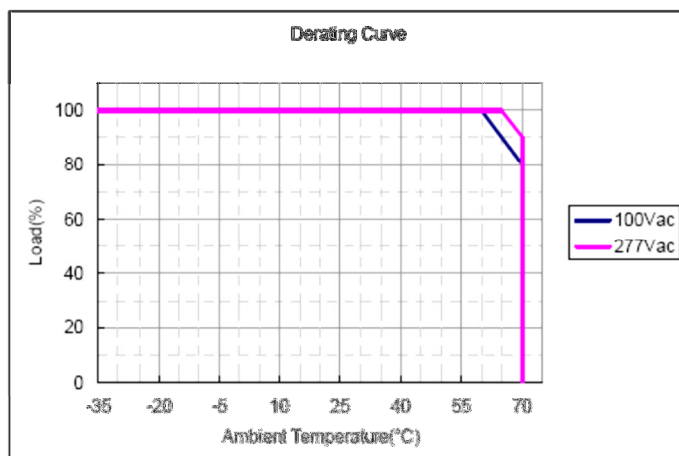
General Specifications (continued)

Earth Leakage Current	<0.75mA@277Vac, 50Hz	Short Circuit Protection	Provided - no damage to unit, self-recovery.
Efficiency	See Models chart.	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.
Output Power	300W continuous	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.
Ripple and Noise	See chart	Operating Temperature	Operating: -35°C to +70°C Non-operating: -40°C to +85°C
Output Voltage	See chart	Relative Humidity	10% to 100% operating 5% to 100%, non-operating
Total Regulation	+/- 3%. See chart	Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13
Dimensions	W: 3.13" x L: 9.37" x H: 1.81"	MTBF	296,000 hours (110Vac input, 80% load, 25°C ambient, per MIL-HDBK-217F).
Weight	1500g	Lifetime	156,000 hours (220Vac input, 80% load, 45°C ambient temperature).

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



Mechanical Drawings

